

Introduction

uniform in their Operation - upon
whole than I embrace the Dogmatical
plan of teaching Physic, & shall deliver
these Lectures in this way only. But
I shall always combine Experience &
Reasoning together.

Most some will tell you of all Phys-
icians practice a like however diffi-
cult their Theories may be, & hence the
little Importance of Theory or Reasoning
in Physic! But I deny this tract, for
altho in Consultations men may agree
yet a man who thinks for himself will
in his private practice judge for himself
also. the Practice of different ages is
widely different, & has always

(a) These strictures relate only to this
Author's *Precis de la Medicine*

Introduction

4

influenced by Theory as I would point out to you at large was this a proper place for it. few men have Genius ^{enough} to study System or Theory, even men of Genius have fallen into Errors of this kind: Lieutardis an Author of this kind.^(a) he never distinguishes Genera or Species of Diseases, nor are the Symptoms of Diseases related in the Order in which they occur in ~~this~~ ^{his} Historia Morbi. his methods of Cure are not less unexceptionable. he confines himself to a certain List of Medicines which he prescribes in all Diseases alike. If those Medicines upon an Author ⁱⁿ: you have all in your Hands absolutely need

185

2

卷之三

-25-

Introduction

5

nor do I think them foreign to a course
of Lectures on the Practice of Physic.

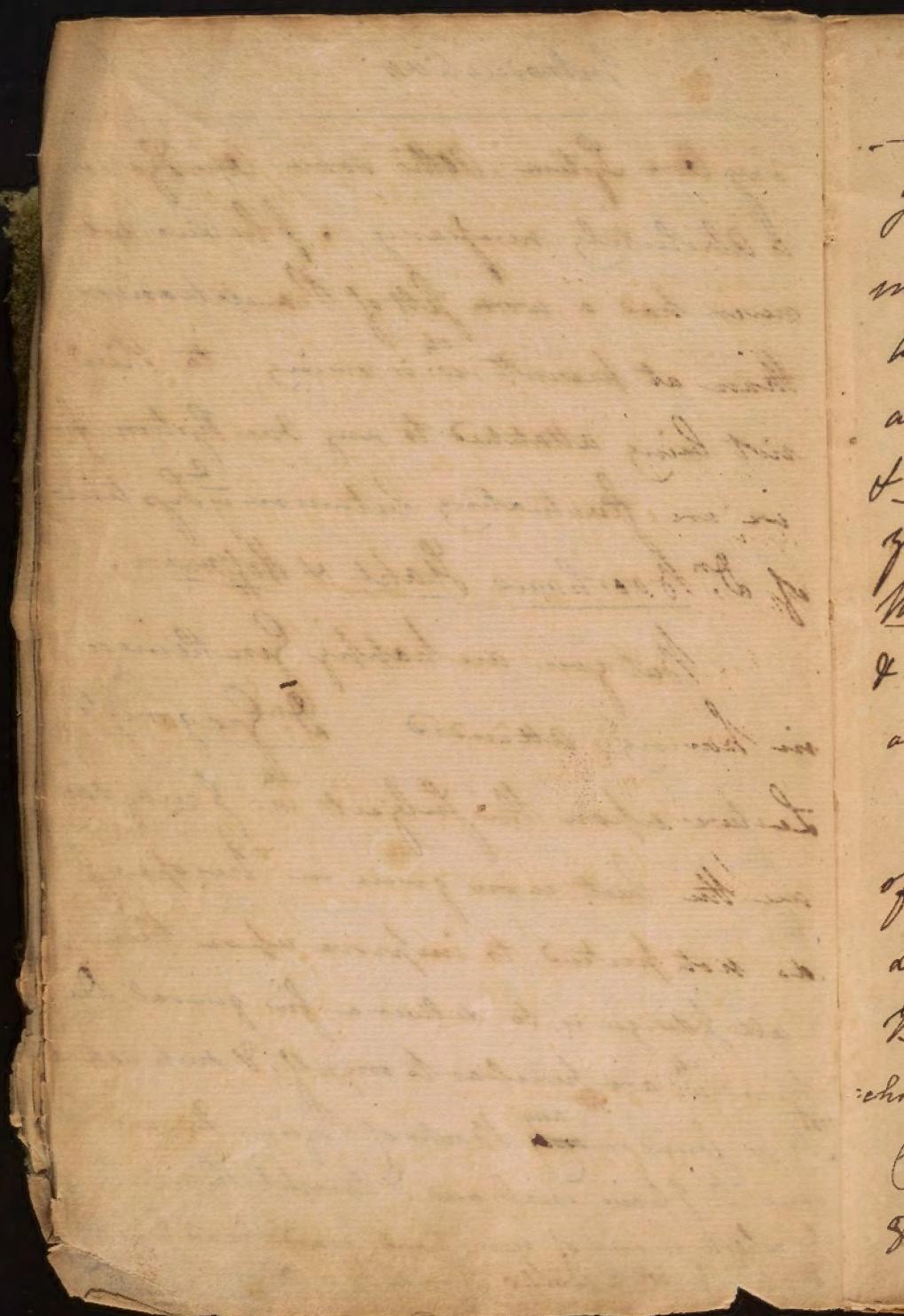
He tells us too that all his Recipes
are the Result of Experience. Strange!
that Experience shd. teach differently
in France from w^{ch} it does in England!

In my Opinion a new Method
of studying Physic must be proposed.
- Facts must be better arranged,
- Diseases must be better distinguished,
& proximate Causes must always be
investigated if we would wish to advance
our Knowledge in Physic, & our Skill
in curing Diseases. Still I would advise
you not to be too much Attatched to

an
u
me
the
n
u
o
g
in
Le
a
d
not
to
de

any one System, Altho' some one System
is absolutely necessary. I believe we
never had a worse set of Practitioners
than at present, w: is owing to their
not being attached to any one System, for
we are fluctuating between the Sys tems
of Dr. Poorhaave Gahl & Hoffman.

But you are happy Gentlemen
in having attended Dr. Gregory's
Lectures upon this Subject w: I may say
are the best now given in Europe. I
do not pretend to improve upon them.
- all I design is, to deliver a few general Do-
ctrines w: are familiar to myself, & such as are
not to be found in ^{any} Books of Physic. They are out-
lines w: I have embraced, & taught these 20 Years,
& which many of you have heard & read from other
Authors & other Works besides my own.



Introduction

7

I shall now add, what Assistance you may receive from Books. I think it absolutely necessary that you should be acquainted wth the works of Poerhaave, Hahn & Hoffmann. next to these I would advise you always to have Sauvages Necrologia Methodica ^{before} your ^{Eyes} Mind, as also Linnæus & Vogel who have each of them attempted a systematic Arrangement of Diseases.

To assist you in the Investigation of proximate Cause you must consult Dictionaries. The best for this purpose are Mangetus; Diction of Bonetus; Lepul-chrum Anatomicum - Morganni de Causis & Judicibus morborum, & a late work of Lindau called "

to
for
the
of
the
for
the
of
the
ad
the
In
Da
ch
w:
the
p

Introduction

8

Before I deliver my plan I shall give you a few more general principles. I before point out to you the Importance & necessity of System in Physic.

Diseases may be distinguishedⁱⁿ as Objects of Sense & in this manner may be reduced to a Mædical Method & ^{2nd} from their proximate Causes. This last Method of dividing Diseases has hitherto been tract-
ed, I shall^{not} now offer my Reasons for adopting it, but hope to convince you of its propriety here after. we have great Encouragement to proceed in Arranging Diseases in a systematick way from ^{the} Successes
in the botanies of Botany have met with in the Arrangement of Plants. Dr. Gaulther has pointed out to us the possibility of the

same
of
read
to
y
con
vi
o
larr
n
ed
of
Lo
Gr
f
at
ha
Ju
eve

Introduction

9

same Forces in Medicine in ~~to~~ ² 1846
of his Pathology. Altho' we have as yet
reaped no great Advantages from the Attempts
which have been made, yet it should not dis-
courage us from making further & more
vigorous Attempts in this way. particu-
larly cannot be studied by themselves from
what we said before concerning the Nature
of Definition in the Language of the
Logicians. When we knew but a few
Genera & species of plants our Investigation
of them was much more difficult than
at present since our Knowledge of plants
has become more enlarged. But even ^c
Science of Botany cannot be complete till
every plant in the world is found. But all

the
pa
- bl
is
to
- se
To
Re
z
La
D
pro
espe

w

Introduction

10

This tends to show the necessity of reducing Particulars to System in Order to establish our knowledge of them. This then is my Apology for the strictures I intend to make on the Arrangement of Diseases by others, & the one I propose to offer of my own.

In all Systems of Science the utmost respect must be paid to ^{the} Nomenclature of particular Genera & Species or all our Language will be very vague & inaccurate. Denomination will always help us precisely wth distinction in all Sciences more especially in Medicine.

I shall now give you a few strictures upon the Systems of Physic that have

b
P
n
G

P
L
6.

a
L
in

8
4
an

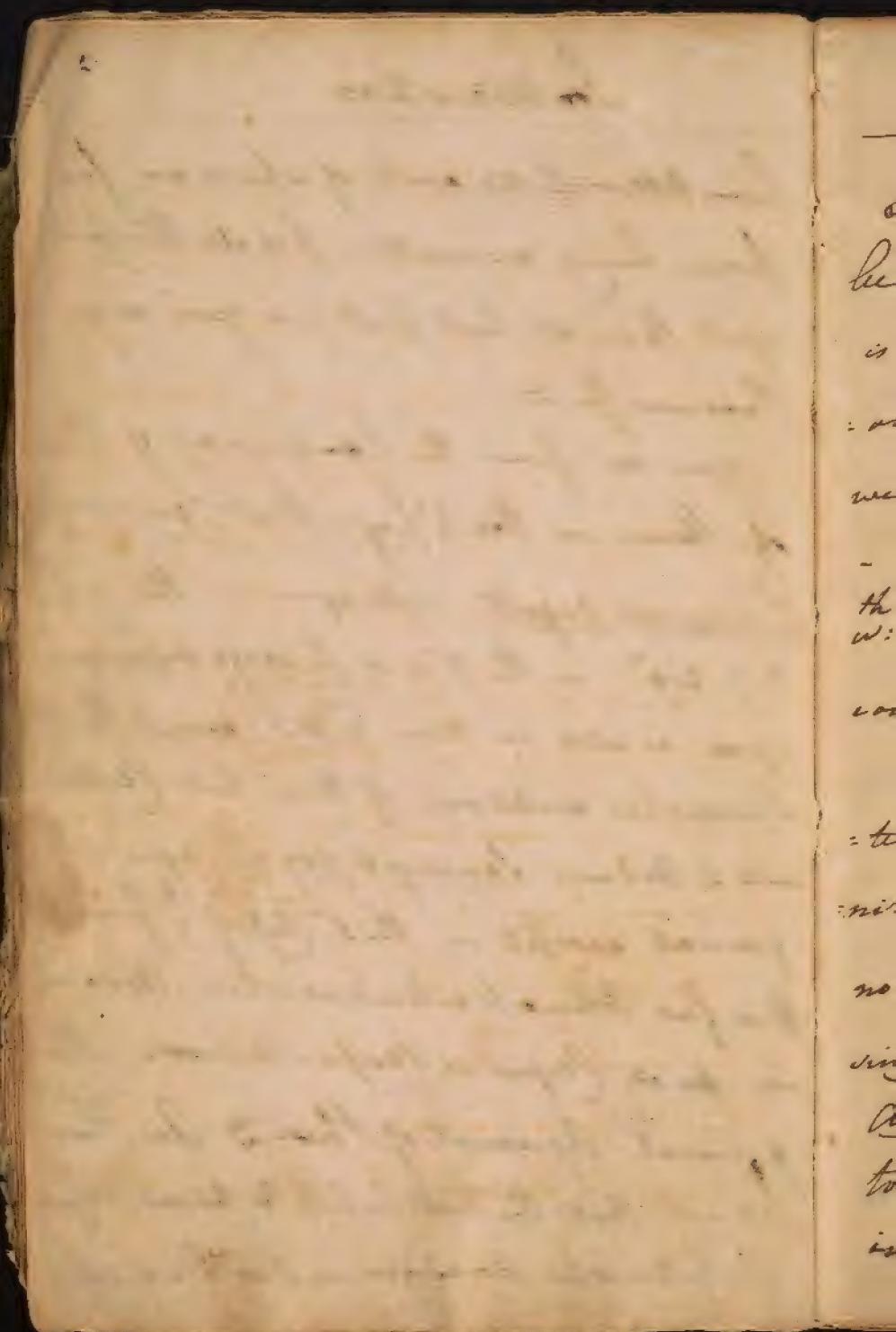
9
P

Introduction

"

been attempted each of which are far from being accurate. I shall therefore reject them all, but first give you my Reasons for it.

You see from the Comparison of three of them in the ² page that Lauvage Linnous & Vogel all agree in the ^{1, 4,} 6, 7, 8th in the 8th & 10 Lauvage & Linnaeus agree, as also in their 2, 8, 3rd except that Linnus has divided one of these last Clases into 2 Ordos. Lauvage & Vogel agree in general except in the 5th Clas of 7 former & a few others particular where Ordos are made Clases or Clases Ordos. The general Agreement of these 3 Authors points out the possibility & advantages of Systematic Arrangement in Diseases.



Introduction

12

Some of these Clasps ought entirely to be rejected from our System. the Vitia is established too slender a Definition, as being derived from the Fiat, which we know is liable to great Ambiguity.

- This Clasp in particular is confounded w: all the Diseases of the skin ⁱⁿ w: properly come under another Clasp.

The An-hilateries should likewise be rejected as being an improper Clasp. it unites many Genera of Diseases which have no Relation to One Another except in the single Symptom of difficult Respiration. ^e
Asthma & Hydro-thorax have no Relation to One another ~~& the~~ ^{but} they are both arranged in this Clasp.

F

-dah

a

for

G

D

co

the

the

the

B

un

cha

ris

he

th

=Dad

Introduction

13

The Dolores should likewise have no combination in a System of Physic. it is formed from a single Symptom ⁱⁿ was the Case wth the former Clas^s. in ^{all} our Arrangement of Diseases we should strictly avoid blending Diseases together from ⁱⁿ Symptomes: are common to many or most of them. thus the Cardialgia & Rheumatism are placed in this Clas. & yet how widely different are the Causes & Cures of these two Diseases! Besides he omits many Diseases under this Head where pain is ^{the} most characteristic Symptom, nor does he properly distinguish between Uneasiness & pain, & hence he reduces sickness ^{to} power to this Clas. The Other 7 Clas^s of Gree-
vage may be admitted under proper

Re
t
h
o
f
C
:
G
P
M
B
is
A
K
D
-
c
-

la

Introduction

14

Restrictions. the 2^d & 3^r viz: the Liver & Phlegmata might w: equal propriety have been reduced to the one general Clap of Febris. they are however natural Claps. They are all defective in this particular viz: ^{in having} rejected all Cases of external Inflammation.

The 4th viz: the Praemi is likewise a natural Clap, & common to all the Authors we have spoken off. but it is defective in them all, in excluding the Asthma - Palpitatio Cordis &c, nor should they be separated from Other Pneumonic Diseases where the Spasm is more difficultly Observed.

The 5th Clap Debilatates is found in Nature but as it comprehends Organical Diseases

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
990
991
992
993
994
995
996
997
998
999
1000

Introduction

15

of the Jenses, which properly belong to another Class. This Class ought only to comprehend the more general Affections of the Nervous System.

The 8^o: Vesania is upon the whole a natural Class, but it is ~~far~~ faulty in comprehending the organical Affections of particular Organs such as the Cataract & several other Diseases of the Eye ^{w:} have no Relation to Hypnotismus or Delirium.

The 9^o: Plazus is a faulty Class in not distinguishing those ⁱⁿ Idiomas: are active & passive as Pathologists call them, as well as those ⁱⁿ w: are & those ⁱⁿ w: are not Attent. ^{the} ^{2d} w: Fever.

The 10^o: Cachexia is likewise incorrect in

no
a
y
pe

a
L
d
th
m
in
h

to
of
ly

Introduction

16

not distinguishing Organic from Systematic Affections. nor is the Definition of this C properly restricted.

To these Cases of Languor we have added another viz the Epischeses in which Languor reigns upon the Air: of its being defined by negative Qualities. this I grant should be avoided in all Definitions as much as possible, but they sometimes must be used. Languor himself falls in to it in a hundred Instances in the Course of his Work.

- I cannot say however there was any Keafity for a Case of this kind, as the Supposition of Hypotension is often nothing else but a Symptom of other Disease.

After having raised the Objections

to
to
ve
m
it
as
J.
me
E
P
-2
be
up
of
2

to three Lectures of Physic I have presented
to Offer One of my own ^{is} is indeed a
very imperfect Attempt at a herologia
methodica . I had not time to make
it better . I thought it absolutely necessary
as a Foundation for these Lectures , and
I am willing to sacrifice a little of
my own Reputation ~~rather~~ for your
Advantage .

I have divided the plan into two
parts . The first come immediately un-
der the notice of the Physician . The 2nd
belongs more properly to the Surgeon &
upon that Ac^t: has often been left out
of a course of practical Lectures , ⁱⁿ I purpose
to do in this the present .

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

Synopsis Morborum

Part I.

Morbi universales sive totius systematis
 Clasps I. Pyrexiae. Post Hororem, pulsus
 frequens, calor major, viribus artuum
 immunitis.

Ordo 1^{us}, Febris. Pyrexia sine morbo locali
 primario.

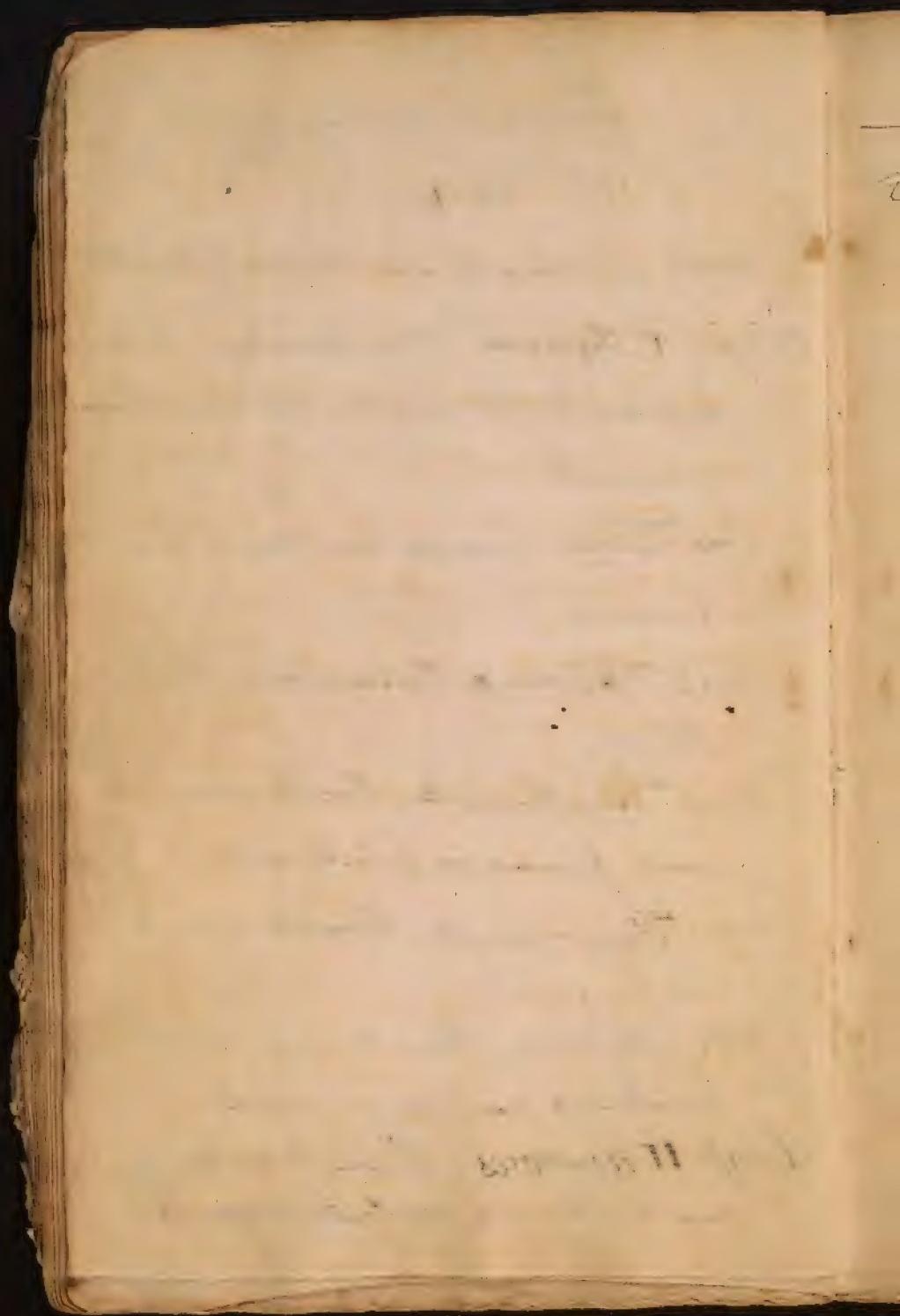
Ordo 2^{us}, Plegmasia. Pyrexia cum Dolore
 topico.

Ordo 3^{us}, Xanthemata. Post Pyrexiam phleg-
 masia plures in parte sparsa.

Ordo 4^{us}, Hemorrhagia. Pyrexia cum profusa
 sanguinis.

Ordo 5^{us}, Profluvia. Pyrexia cum Aonta
 excretione non sanguinolenta.

Clasps II neuroses - Pensus & motus affecti-
 ones sine pyrexia vel virtus Organica.



Synopsis Morborum

19

Classis II Neuroses.

Ordo 1.^{mas} Pomata. Sensus & motus immuniti
cum Sopore.

Ordo 2.^{mas} Adynamia. Sensus & motus immi-
nati sine Sopore.

Ordo 3.^{mas} Spasmi. Muscularium & vibrarum
Contractiones inordinate.

Ordo 4.^{mas} Vesania. Sensus extermi & interni
inordinate.

Classis III Cachexia. Habitus totius
Corporis, vel magna ejus partis
depravatus.

Ordo 1.^{mas} Macies. Corporis detennatio.

Ordo 2.^{mas} Intumescentia. Corporis totius vel
magna ejus partis volumen adaequatum.

Ordo 3.^{mas} Impetigines. Cutis defadata
pustulis parvis, crustaceis plerumque
gregalibus.

15

III

16

Synopsis Morborum

20

Clavis III. Cachexia.

Videtur: Decolorationes. Cutis Color in
toto Corpore mutatus.

Pars II.

Morbi particulares sive partis unius
Organii.

Clavis IV. Epischeses. Excornendorum
Suppressions

Clavis V. Dysaesthesia. Sensus immixtus.

— VI. Dialysis - Solutiones fortissimae.

— VII. Paroxysmata. Tumores a poti:
- dis aduentis.

— VIII. Cystides. Tumores capsulati.

— IX. Ectopia. Partium solidarum
e suis Locibus Dislocationes.

— X. macula. Cutis Coloris in
partibus Mutationes.

W

W

Y

X

W

W

X

X

Introduction

21

The 1st Class, the Pneumia is a natural
Class & will therefore be readily admit-
ted. All the Orders w^t it includes com-
prehend those Diseases th depend upon
an emanation of those powers th
move the Fluids.

in the 1st Order under the definition of
Fever I have added the word primaria.
you will see the propriety of this addition
by consulting S 848 of Dr. Gmelius's Patho-
logy.

The 2^d Order Phlegmiae ought to com-
prehend a definition of Inflammation
but this would be foreign to our purpose
& would have restricted it too much.

The 3rd Order you will perhaps think in-
complete in not comprehending the

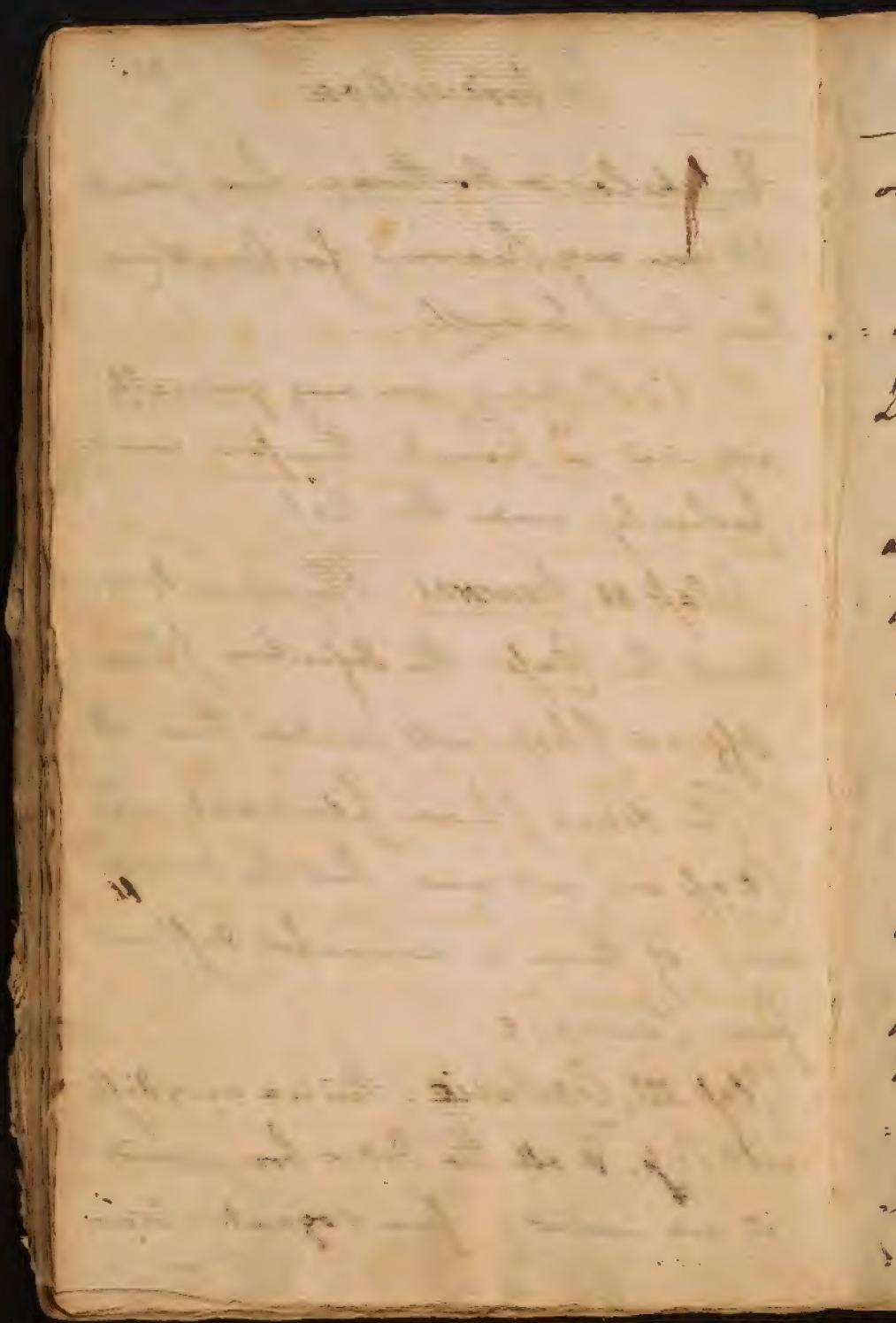
Insipelas or Anthrax, but I shall tell you my Reasons for omitting them here presently.

The 4^r & 5th Orders are very generally attended th Leaven & therefore come properly under this Class.

Class II. Nervosæ. Physicians disagree about this Class. the Definition I have offered I hope will include them all.

The Orders I have placed under this Class are not new, but the arrangement of them is somewhat different from Lauvage.

Class III. Gaucherie. This is a very difficult Class, & all the Orders brought under it are included from dogmatic views



Introduction

23

or from Notions of proximate Causes.

Order 1st Maries. I believe seldom ex-
ists. it is rather a symptom of Other
Diseases as we shall hereafter show.

Order 2nd the Instruments shall include
all the species of Drapery, as they all
depend in some measure on one
common Cause.

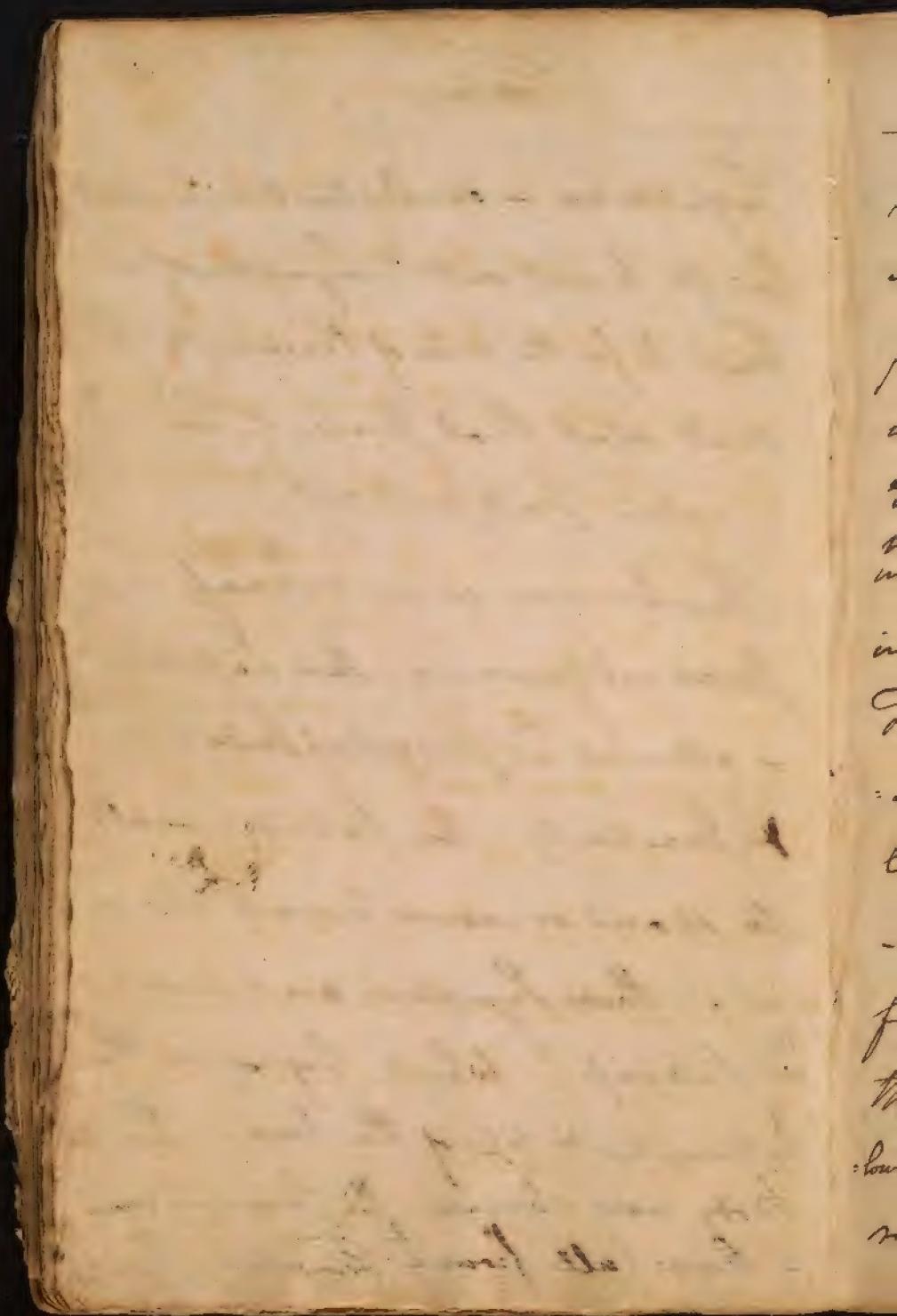
I told you before y^r: I did not intend
to treat of the 2nd part of the Causes
of Diseases in our plan. You will
find them accurately pointed out
I divided by Dr. Gauvius in his Patho-
logy under y^e Head of "morbis foli-
rum Contineturum", & morbis Insti-
luntarii"

I shall now enter upon the Consideration of the ith Class viz: the Pyrexia. I shall omit treating of this Class in a general way, but proceed immediately to the Division of the ith Order viz: the Fevers where the pyrexia do uniformly attend. It is the great Advantage of Nosologia Methodica to distinguish Diseases by those marks only w^{ch} are essential & pathognomonic. Pyrexia therefore & even a quickness of Pulse are not sufficient to characterise Fever. Some thing else then must be called in. I have therefore in Imitation of Lauvage shown to distinguish it likewise by the Honor w^{ch} do universally attend Fever.

This image shows a single, aged page from a manuscript. The paper is a light beige or cream color, showing significant signs of wear, including creases, discoloration, and faint smudges. The text is extremely faded and illegible, appearing as thin, dark lines across the page. On the right edge, there are some darker, more prominent marks that appear to be bleed-through from the reverse side of the page. The overall appearance is that of an old, well-preserved document.

To guide us in our distinctions we shall briefly point out the Symptoms of a Fever, & for the sake of Propriety I shall select that Species of Fever ^{which} is called Intermittent.

This Disease comes on th Leptitude Stretching & Yawning. This Leptitude is attended w: th Fluzziness Indolence & Inactivity. The Patient is unable to stand or exercise himself as usual. These Symptoms are succeeded w: Paleness, which begins in the Extremities & tip of the nose. The Body now shrinks - the skin contracts - Rings fall from ^{the} Fingers - The



Red ripples disappear - the skin is
shrunken, but the nervous papilla
project like Granules - the Body
is now cold to the Touch especially the
Fet. this sense of Cold is attended
w: creeping Thrills ^{w:} are felt chief
in the Back. This Cold is attended w:
Tremors - Rigor see ^{w:} are most vi-
olent in those parts where ~~the~~ ^{the} are
least supported as in ^{the} Lower Jaw.
now a Heat begins to spread itself
from the Praeioria to every part of
the Body. the Tremors cease. the Co-
lour & Fullness of the surface of y Body
return - the Face becomes red - &

fl
b
e
P
m
a
o
ta
c
y
l

flushed wth heat. a sweat now breaks out
beginning in the Face, & gradually
extending itself all over the Body. the
sweat after a while ceases. the Body
returns to its usual state except if:
a Debility remains for some time
after the Fever. This Paroxysm as
thus described has been divided in
to several stages. such as the
Cold Fitt - the hot Fitt - & the
time of sweat, or in other words
of ^e Fadia Trigoris - Caloris & Sudoris.
the Limits of these Fitts are not
exactly defined. there are other
Circumstances to be taken into our

This image shows a single, vertically oriented page from an old book. The paper is a light beige or cream color, showing significant signs of age and damage. There are numerous small, dark brown spots (foxing) scattered across the surface. A large, irregular tear is visible in the upper right quadrant. The left edge of the page shows the binding of the book, with visible stitching and the edges of other pages. The right edge of the page is slightly irregular, suggesting it might be a flyleaf or a page that has been cut or folded.

consideration such as the state of
the Pulse in the cold Fitt is weak
& irregular. in the hot Fitt it be-
comes stronger, fuller & more regular,
but is manifestly contracted & hard.

- as the Heat advances, the Pulse
increases in Fullness & Force.
when the sweat breaks out, the
Pulse becomes more full but soft
& when the sweat ~~goes~~ ^{goes} off the Pulse
returns to its usual state.

The Respiration in the cold Fitt
is small & labourious. in the
hot Fitt it is less frequent & more
easy, & as the sweating Fitt returns

it
in
-
u
-
to
O
g
D
ing
v

it becomes more easy & natural.

The functions vary in these Fitts.

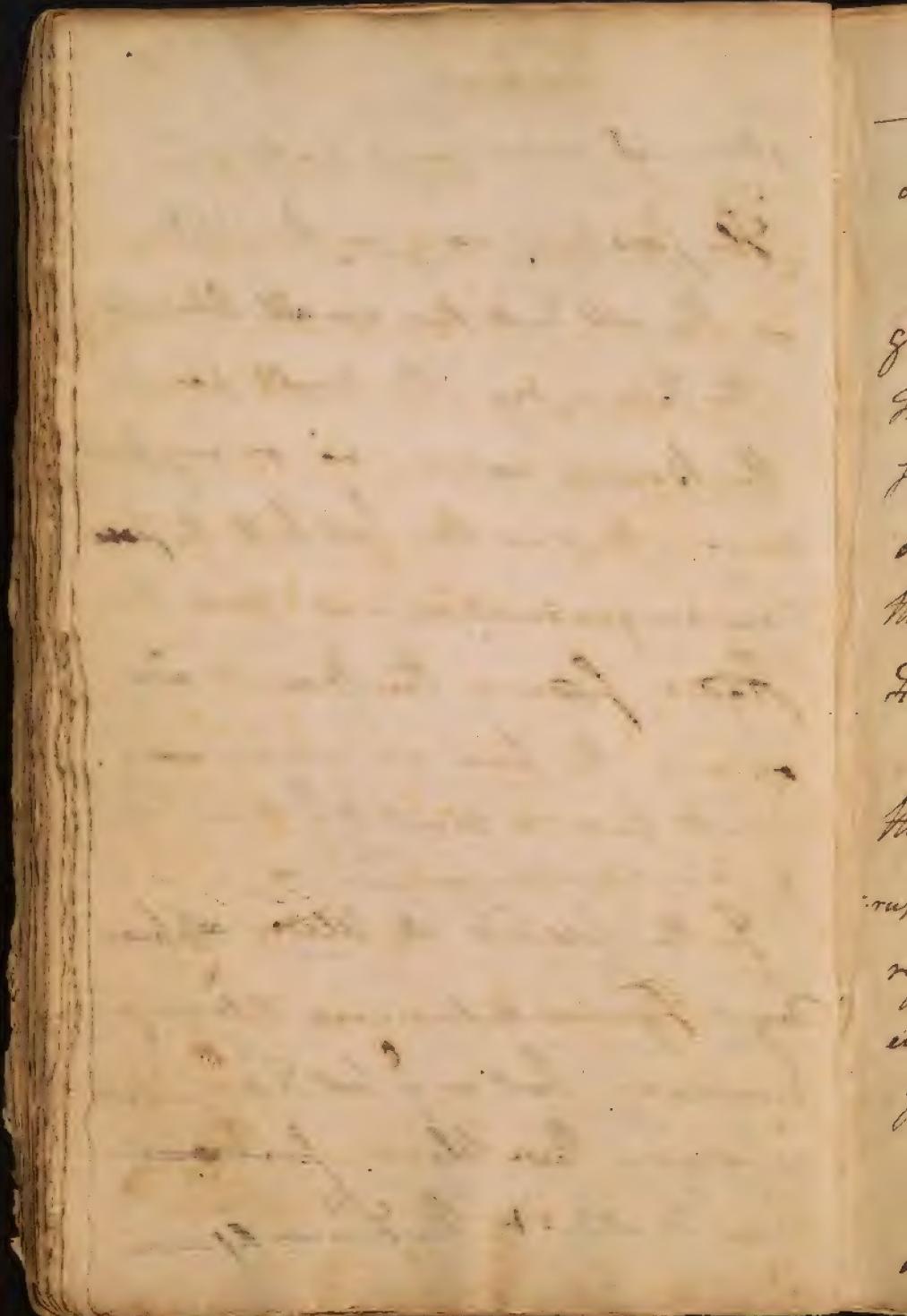
in the cold Fitt they are all obstructed.

- the skin is dry - the mouth parched -

- the Bowels constive - no or very pale urine - But in the hot Fitt the functions are gradually opened. & in the

stadio sudoris the Bowels are opened. the pores are relaxed, ~~dry~~:
mouth becomes moist, & ^{if} urine drops to a latencies sediment.

In the Cold Fitt all Ulcers appear to dry - Tumors determine & some disappear, but as ^{if} hot Fitt & sweat-
ing return those Ulcers pour ^{out} new Matter & the Tumors again

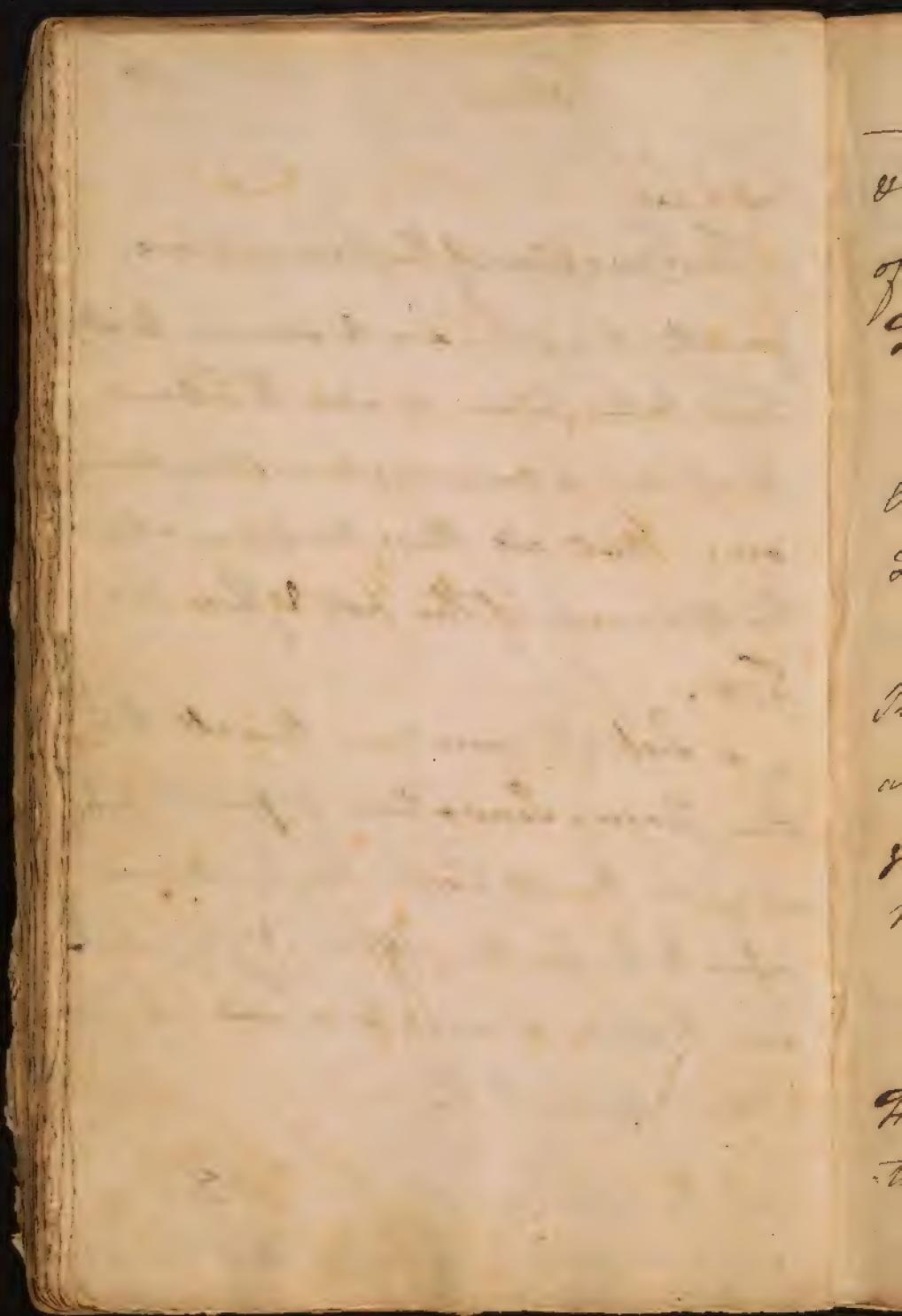


appear.

The Functions of the Stomach are greatly changed. an Aversion to all Food takes place, as also to Tobacco Snuff &c. a vomiting sometimes comes on. But all these disappear at the Approach of the hot & sweating Feat.

a Debility continues thro all these three stages. Sensation is greatly interrupted in the hot Feat. the Eyes & Ears refuse to perform their Office. & the patient even becomes insensible to a red hot Iron applied to the Face.

at the Approach of the hot Feat
a morbid Sensibility takes place to light



sc. Convulsive Tremor, & ally Train
of nervous Symptoms appear in ^e cold
Fitt.

Frost is common to all these 3 stages
but is generally greatest during the hot
Fitt.

Pains are felt in ^e Head - Back &
Knees. They begin in the cold Fitt but
are most violent in the hot Fitt, &
generally keep pace wth Delirium & a
Throbbing of the Temples.

Death for the most part hap.
in the cold Fitt, or if it is in ^e hot
Fitt some Symptoms of the cold Fitt re-
turn again.

These Symptoms are all greatly diver-

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

338

339

340

341

342

343

344

345

346

347

348

349

350

351

352

353

354

355

356

357

358

359

360

361

362

363

364

365

366

367

368

369

370

371

372

373

374

375

376

377

378

379

380

381

382

383

384

385

386

387

388

389

390

391

392

393

394

395

396

397

398

399

400

401

402

403

404

405

406

407

408

409

410

411

412

413

414

415

416

417

418

419

420

421

422

423

424

425

426

427

428

429

430

431

432

433

434

435

436

437

438

439

440

441

442

443

444

445

446

447

448

449

450

451

452

453

454

455

456

457

458

459

460

461

462

463

464

465

466

467

468

469

470

471

472

473

474

475

476

477

478

479

480

481

482

483

484

485

486

487

488

489

490

491

492

493

494

495

496

497

498

499

500

501

502

503

504

505

506

507

508

509

510

511

512

513

514

515

516

517

518

519

520

521

522

523

524

525

526

527

528

529

530

531

532

533

534

535

536

537

538

539

540

541

542

543

544

545

546

547

548

549

550

551

552

553

554

555

556

557

558

559

560

561

562

563

564

565

566

567

568

569

570

571

572

573

574

575

576

577

578

579

580

581

582

583

584

585

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

869

860

861

862

863

864

865

866

867

868

869

870

871

872

873

874

875

876

877

878

879

870

871

872

873

874

875

876

877

878

879

880

881

882

883

884

885

886

887

888

889

880

881

882

883

884

885

886

887

888

889

890

891

892

893

894

895

896

897

898

899

890

891

892

893

894

895

896

897

898

899

900

901

902

903

904

905

906

907

908

909

900

901

902

903

904

905

906

907

908

909

910

911

912

913

914

915

916

917

918

919

910

911

912

913

914

915

916

917

918

919

920

921

922

923

924

925

926

927

928

929

920

921

922

923

924

925

926

927

928

929

930

931

932

933

934

935

936

937

938

939

930

931

932

933

934

935

936

937

938

939

940

941

942

943

944

945

946

947

948

949

940

941

942

943

944

945

946

947

948

949

950

951

952

953

954

955

956

957

958

959

950

951

952

953

954

955

956

957

958

959

960

961

962

963

964

965

966

967

968

969

960

961

962

963

964

965

966

967

968

969

970

971

972

973

974

975

976

977

978

979

970

971

972

973

974

975

976

977

978

979

980

981

982

983

984

985

986

987

988

989

980

981

982

983

984

985

986

987

988

989

990

991

992

993

994

995

996

997

998

999

990

991

992

993

994

995

996

997

998

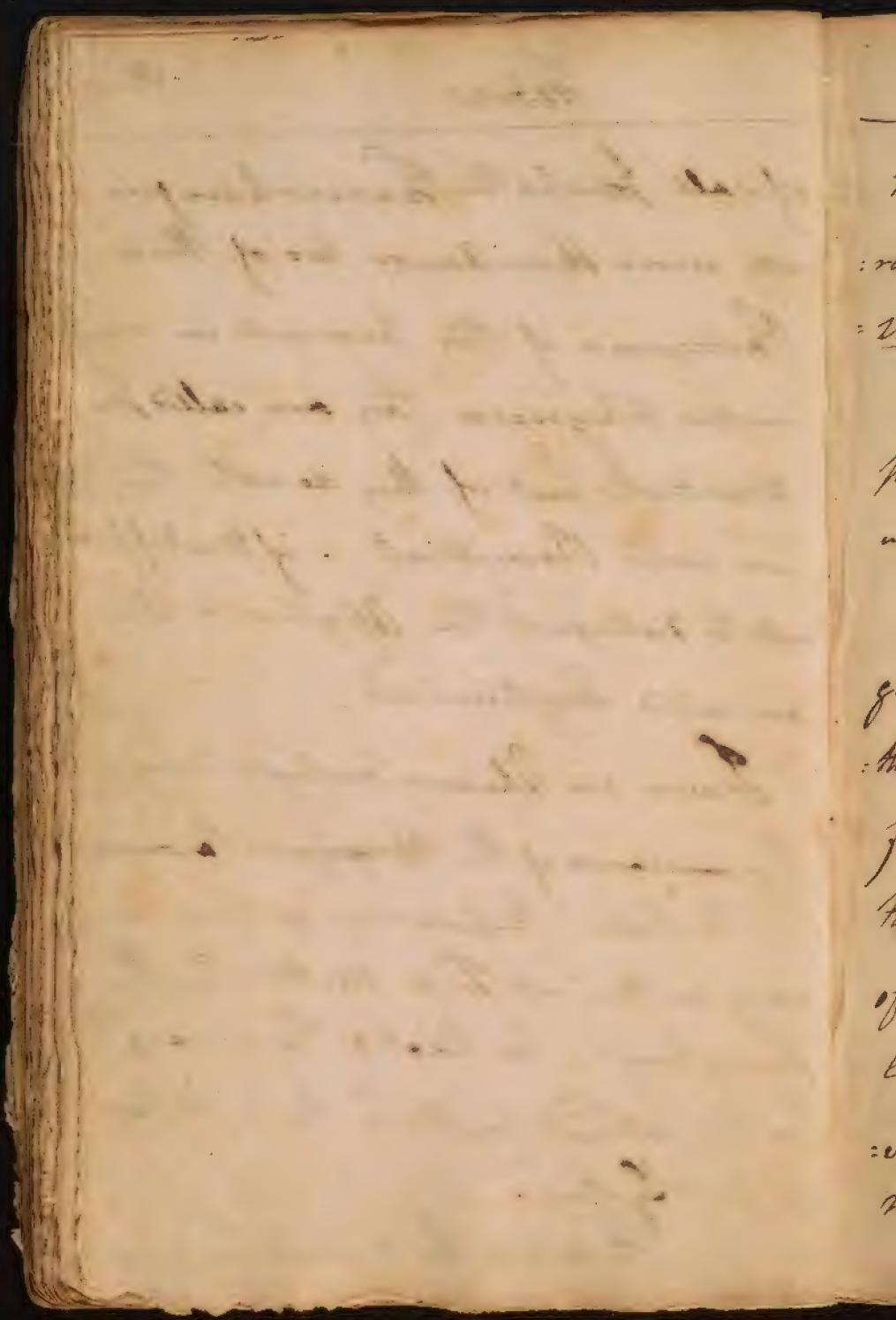
999

1000

-ified all Idiopathic Fevers have generally more than one or two of these Paroxysms if they terminate in an entire Apyrexia they are called Intermittent, but if they do not they are called Remittent . if it is difficult to distinguish the Apyrexia they are called Continuals.

Fevers are likewise distinguished by Circumstances of the Paroxysm - The Pulse, Respiration & Tremor vary in the cold & fit together w: the sensations. The Heat & Thirst vary in the hot fit together w: the whole Functional System.

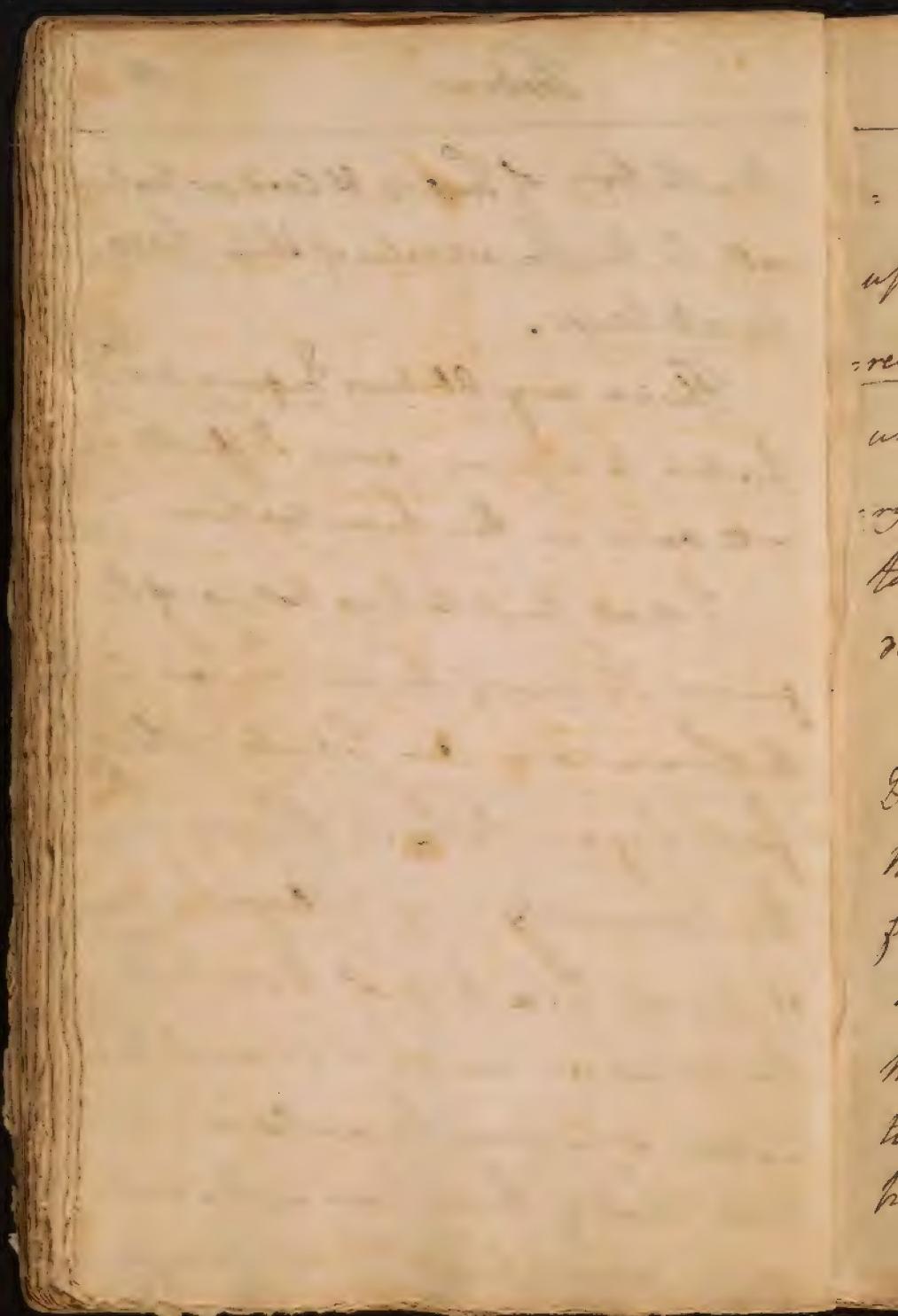
These are the general Facts in



The History of Fevers & lead us naturally to the Investigation of their proximate cause.

This is a very abstract Inquiry ^{do} not I pretend to remove every difficulty ^{of} which will occur in this investigation.

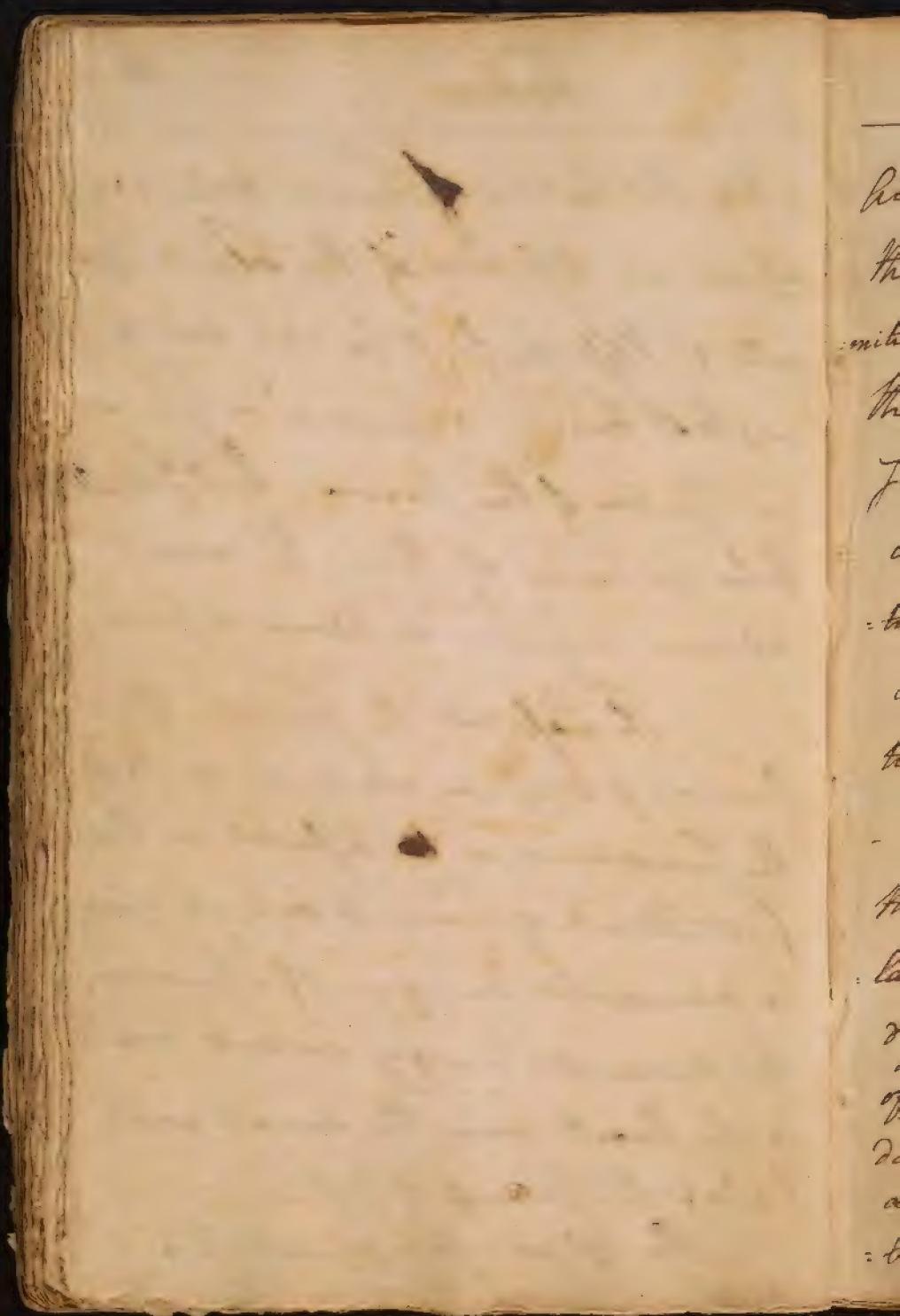
I shall omit taking notice of the general Theories of Fevers ⁱⁿ w: have hitherto prevailed in our Schools. When I first began to teach Physic in this University my Colleagues spoke of Phasm w: a kind of humor, & looked upon me as a chemical Pro-
vator or a mere Paracelsus, but now most of them have embraced it. even Van Swieten himself has reju-



ted the notion of Fevers depending upon an affection of the Nervous. No. Nelli & Hoffman first pointed out to us that Fevers depended on ^a primary affection of the Nerves, but I shall take no notice of their Opinions, & deliver my own as plain as I can.

The Sputum - the Stool - the
Drowsiness & Convulsions all show us that
the Pensorium is ~~so~~ Affected in the
first Attack of Fever, & depend upon
a diminished Energy of ^{the} Pensorium.
This diminish'd Energy extends even
to the Heart hence the small weak
pulse & the paleness of ^{the} Skin.

The Blood relieves especially the



Arteries are contracted distant from the action of the Heart, while $\frac{2}{3}$ Extremities of the Arteries are contracted, hence the Suppression & Obstruction of all the Functions. This Constriction may be accounted for from the simple Elasticity or Contractility of the Extremities of the Arteries without having Recourse to an increased Influx from $\frac{2}{3}$ Personum.

While the ~~Blood~~ small Arteries are thus contracted the Blood is accumulated in the larger arteries hence the difficult Respiration &c which we spoke off before. The Increase of the Heart does not depend upon $\frac{2}{3}$ stimulus of this accumulated Quantity of Blood, for its sensibility is greatly diminished. —

an

fie
fir

ve

i

se

de

M

rati

mi

ha

re

me

g

2

These Phenomena are succeeded by
a considerable Increase of the Heart's
action. the Pulse becomes stronger &
fuller, & this is occasioned ^{in some measure} by ^{cold} cold
Fitt. But in w: manner? This is a
very difficult Question. we must refer it
to the vis Natura Medicatrix ⁱⁿ: dispos-
ing the System to recover its Balance when
destroyed. I do not suppose this vis Natura
Medicatrix depends upon ^c action of a
rational Intelligent principle, nor upon a
mixed Action of the Soul & Body as Dr. Gaudio
~~says~~, but ^{Imagin that it} depends merely upon the
Mechanical Operation of our Constitution.
& flows from w: is called physical Health.
2^d This ^{Phenomenon} Disease may be illustrated by

2
J
bu

ra

wh

In

mi

l

in

a

pr

pa

en

all

mu

be

t

ca

a familiar Analogy. Sedatives take
off the Excitement of the Sensorium
but when taken in a moderate Dose
rather excite the action of ^{the} Sensorium
which tends to remove the sedative
Impressions induced by the narcotic
Medicines.

Does the diminished Circulation of ^{the} Blood
in the small arteries induce Cold, and
a Constriction? & this generation of ^{does} Cold
produces the Reaction of the Sensorium?
has been maintained
This ~~was~~ from Cold exciting the en-
creased Action of the System, & inducing
all the Phenomena of Fever. Cold there
must be a necessary step in exciting the incre-
ased Action of the System; But some doubt

may
but
for
villages
tion
e for
have
For
in
Mic
tum
Lyn
see
or
the
wa

may be offered to this Conjecture. all
acute Hemorrhages are preceded ^{the} w a
sense of Horror & Cold. now Hemor-
rhages are generally attended ^{the} Comp: -
tion. this is most evident in my Case
before the Escrption of Blood from y:
Nose. After Child Birth too we see a
Fever attend the Congestions ^{the} w: are formed
in the Breasts previous to ^{the} Lactation of
Milk. we see Congestions in y: Rheumati-
tism & Angina before the Horror & Other
Symptoms of Fever come on. I have
seen a bilious or calculous Concretion
bring on the Symptoms of Fever. in all
these Cases ~~of~~ the Congestion the Sensorium
was excited to remove an uneasy Sensation

now

of the
Colo

dep

also

for

- 10

recief

a n

to be

the

it

be

Fine

of t

of

Now all this tends to show γ : γ Reaction
of the Sensorium does not depend upon
Cold, but that the Phenomena of Fever
depend upon the Reaction of γ Sensorium
already begun. now we often see ~~the~~
Fever exacerbated without any cold Pitt.

- But why does the cold Pitt so often &
necessarily intervene? - I do not think it
a necessary Intervention altho' it is conducive
to bring on the Symptoms of Fever especially
the increased Action of the Heart & Vessels
& hence the Reason why cold Bathing has
been found so useful in certain States of
Fever. The Cold then is rather a part
of the hot Pitt, & occurs in γ Reactions
of the Sensorium in w: γ hot Pitt exists.

On
the

Con
for
to

Par
in
the

mo
for

: did

: was

: red

The
ent

of
the

This is the Reason why the more violent
Cold Pitt is, the sooner the hot Pitt is formed,
& the sooner the Paroxysm is
terminated by sweat, & why ^{the} most
dangerous Fevers are generally ushered
in wth little or no Shilly Pitt. Permitting
Fevers where no Apyrexia appears are
more dangerous than Intermittent Fevers
from the Circumstance of their being attended
wth no cold Pitt. Those Descriptions of Fe-
vers w^{ch} prove critical are always introduc-
ed by an evident Cold Pitt. I conclude
then that the Cold Pitt of Fever depends
entirely upon the Reaction of Johnsonian.
I do not pretend to explain any further
the Reason of the cold Pitt. we must refer

it

the

we

has

the

one

the

as a

we

five

tives

for

one

read

re

it to a general Law of the System, or to
the Vires nature & medicatrices. it depends
we said on the Reaction of the Pensorium.

The Pensorium is a Centre of Motion, but
has no Motion in itself. all $\frac{1}{2}$ Actions of
the Pensorium then arise from Impres-
sions made on it, so that the every Action of
the Pensorium ought to ^{be} considered only
as a Reaction. To illustrate this still further
we must consider the Operation of Sedac-
tives in a more extensive Manner. Sedac-
tives then do not act on $\frac{1}{2}$ Centre or inert part
of the Pensorium, but act partially
only. The part then on th they do not act
reacts again in a short time, & thus
restores the whole to an Equilibrium.

Co

ap

to di

ngre

upd

for

pro

wisC

ond

c

:es r

Fir

fin

for

of

exc

Cold is a sedative of this kind. When applied to the body it induces a desire to discharge urine & faeces which may depend upon the Reaction of the Medulla Spinalis, upon which the Cold at first exerts its Sedative power. Not only the Cold is an active power of Nature, but even the Tremor likewise I have always find their proportioned to the Action of the Heart & Lungs: Afterward follows. At the ~~end~~ ^{2d} cold

It depends upon the Reaction of the Sensorium, yet I will still allow that it may, when br't or have some Degree of Stimulus which may contribute towards exciting the Action of the Heart & Lungs.

The
the
is a
Cap
naf
His
wa
Pain
is a
D
the
the
for
La
the
Fre

The Resistance to be overcome by
the Persorium when ² Cold is induced
is a Spasm on the Extremities of the
Capillary arteries. an Atonia of these
vessels disposes to the Production of
this Spasm w^{ch} Atonia is bro't on by the
Want of Antagonist power or the Blood
being propelled in to them. This Atonia
is always greatest in proportion to the
Distance of any part from the Heart, hence
the Reason why the surface of ² skin is
the chief seat of Spasm. This Spasm continues
for a considerable time during the hot Pitt.
I am a supposer this Spasm constitutes
the Fever & that when this ^{is} overcome the
Fever is over. This was formerly my

Br

&

pre

run

ho

is o

new

on

: ease

ups

is

the

for

for

en

Opinion, but we often see a Debility & want of Excitement of my Personium preude the Phasm, & this must be removed before we cure Liver. the hot Pitt is beat on by the Phasm & is supported by it, & is therefore a necessary Intervention in ^{the} Cure of Liver. the Phasm then is not yet: ease itself Altho' the Cure of Liver depends upon the Removal of it. the Phasm then is neither the fundamental Disease nor yet the Removal of it, but is the Effect of the first & Cause of the last. Liver therefore consist of 3 parts Debility-Phasm & increased Action or hot Pitt. I will not

say

how

the

shed

- the

be in

& a

Jan

Dec

to a

ties

Gov

of

itself

Lynne

is b

an

say how Debility brings on Spasm or
how Spasm brings on a hot fit.

The Continuation of each there are established by certain Laws of the Economy.

- the first Action of the Sensorium will be in increasing the action of ^{the} Heart & Arteries. Then will react on the Sensorium & contribute towards its excitement which enables it at last to overcome the Resistance on ^{the} Extremities of the Arteries. The whole Cure of Fever consists in restoring the Energy of the Sensorium. it begins by its reaction itself; this we prove from the Phenomena of Syncope, but a proper state of excitement is brot on by the action of ^{the} Heart & Arteries.

This

the

-lity,

an

The

us

not

sho

ist

each

encourage

Hon

are

To

This finishes our proximate Cause of Fevers
we have found it consist of 3 parts Debi-
lity Spoon & hot Fitt. they all depend
on each Other & succeed each Other in
the Order I have mentioned. the first inde-
nies the second, & the second the last. I do
not say each of these Stages we have been
speaking off subsist Separately. they Others-
ist all at One and are confounded with
each Other. Fevers then consist in 1: an on-
ward Heat, 2: enlarged pulse when they follow
Honour or a Chilly Fitt. ~~for~~ unless they
are preceded by this, they cannot belong
to the Clap of Pyrexia.

The

Cou

dep

ie

that

= vela

: mor

up

in q

gra

for

gra

than

turn.

is p

The Spasm may arise from many Causes on w^{ch} the variety of Fevers depend. It may depend upon Congestion i.e an Afflux of greater quantity of Fluids than can be transmitted thro' Blood-vessels. This kind of Spasm occurs in Haemorrhages. & upon acid Matter found upon w^{ch} the Extremities of the Nerves as in Exanthemata. But I doubt whether Spasm takes place here. a Congestion is formed & grant w^{ch} may perhaps occasion a Spasm not only in the part where a Constriction appears but all over the System. I return now to consider our first Order or what is properly called Fever.

It

of the

of the

Fare

Span

Pan

fire

Lyt

viz.

is f

mercy

of a

The

In

the

-ic

It is the different states of Debility & power
& heat & cold occasions the different genera
of Fevers. the Duration of each Paroxysm of
Fever depends upon the nature of the
Fever. a Fever is seldom terminated by one
Paroxysm w^{ch} depend upon the Lakes ^{the}
first induced the Fever still continuing in the
System. here I must define two Terms
viz. Interval & Interruption. The Interval
is from ^{the} beginning of one Fit to ^{the} Commence-
ment of another. The Interruption from ^{the} end
of one Fit to ^{the} beginning of another.
The shorter the Paroxysm the longer the
Interval, & the shorter the Interval
the longer the Paroxysm. thus the para-
oxysm of a Quotidian is 10 hours. of a

Per

Spec

way

my

the

how

had

fore

time

ally

in th

in i

its

24

vi

Period 8, & of a Quartan 6 hours. I
speak this at a medium. there may be
many exceptions to it. There are ma-
ny causes ⁱⁿ protract their paroxysms.
Thus a Fitt may be protracted beyond 24
hours, & in this case the Fever loses ^{the}
name of an Intermittent. There can there-
fore be no Intermission if a Paroxysm ^{con-}
tinues beyond 24 hours. Our System is perpetu-
ally undergoing Change. the vital principle
in the Sensorium is always rising & falling
in its Oscillations, but appears to be in
its two Extremes One at least in the
24 hours. This must be resolved into the
vicissitudes of Slipping & waking. any Labs

Then

Re

- due

part

- the

- fo

After

m

in

of

the

of

you

this

the

then dispensing to lower will from these
Revolutions of our System be liable to in-
duce a Return of a Fever again. hence we
find they generally return at ^a certain period
- thus Quotidians come on in ^{the} morning
- Triarians about noon - & Quartans in ^{the}
Afternoon. every Paroxysm then of Fever
must run its Course in ^{the} 24 hours &
suffer at least some Remission. unless
^{the} Interruption intervenes in ^{the} 24 hours
they ^{can} not occur at all, but from ^{the} force
of Habit & ^{the} vicissitudes we spoke of the Fever
goes on to be renewed every 24 hours. but
this seldom happens, & therefore I believe
there is no such thing as Continual Fever. -

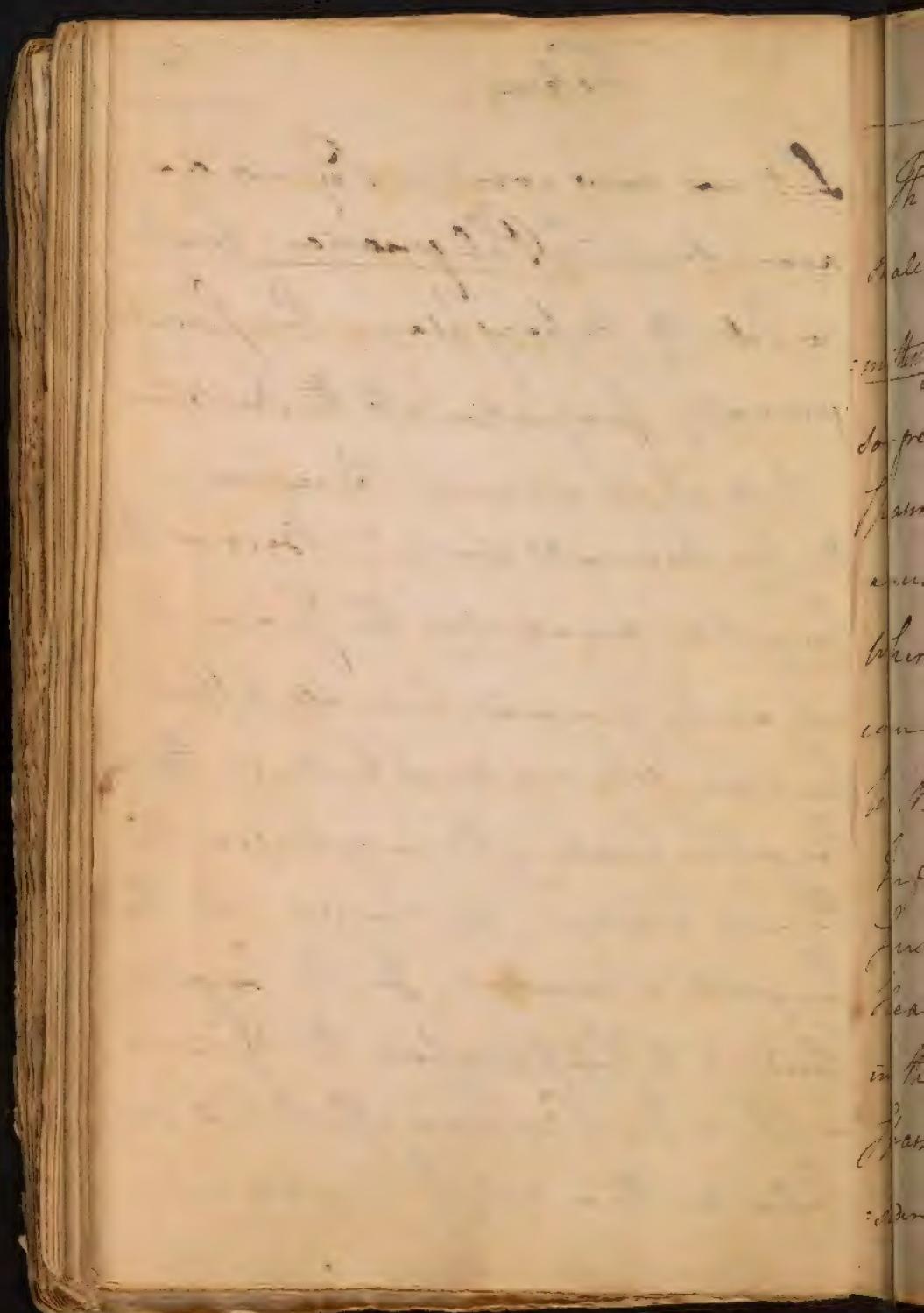
This
er
fore
the
In
of
pre
This
diffi
Lip
- &c
Ma
the
ut

This is apart from Observation as well as from Reasoning a priori. This therefore shows the propriety of what we said before. The longer the Paroxysm the shorter the Interval & vice versa. The continuance of a Paroxysm will depend too upon its greater or less action of the Phasm. & this will be influenced by Debility in its different degrees. the greater the Debility the less the Phasm. Collyry Litt. Horseradish &c. This case occurs in the nervous or malignant Fever, but in Intermittent the Debility is less. the Phasm more active whence the Paroxysm becomes shorter.

Set
over
no a
for
Be
this
true
ut
C°
Nas
long
H
Dro
G
Long
two
see W
before

Let us now consider Pyrexia as
accompanied th Phlegmasia. here is
no Debility taking place. The Fever is
generally proportioned to the Irritation.

But why is not each Paroxysm in
this Case terminated sooner? Because the
Congestion occasioning the Fever is
not easily removed. hence all Inflamm.
Fever are of the continual kind. in the
Congestion preceding Haemorrhages the
Pyrexia always continues till the
Congestion is removed. In the Congestions
tending to Suppuration the Pyrexia car-
ries with it Fluids are effused but not
before as then only ^{the} Congestion is removed.



The Inflammatory Spasm (for such I shall call it) differs widely from the Intermittent Spasm in not being attended w: so great Horror - Fright. The Inflamm: Spasm is often topical, & consists in an engorgement of the vessels near to y place where the Congestion is formed. This Spasm communicates an Inflamm: Diatheria to the whole Arterial System. But in Inflammatory Fever, the Action of the Fright is communicated chiefly to the Heart primarily & not to y Arteries as in the Case of the Phlegmnia. In every Spasm there are 2 Circumstances to be considered viz Constrictive Irritation.

The

Ma
o.
w re

- Then

each

more

ma

re

hol

f

con

big

me

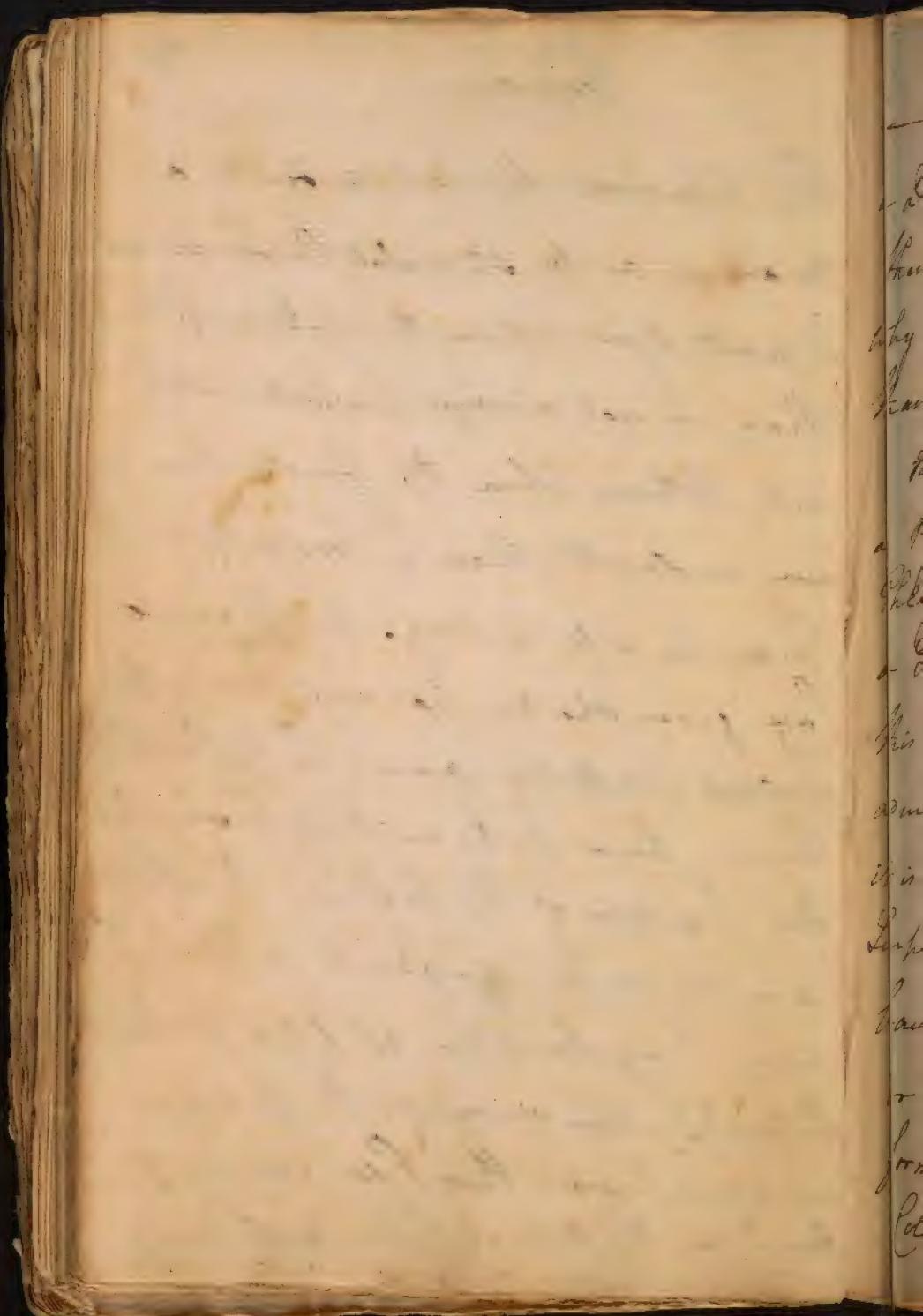
now

later

are

from

The Febr. produces the last, in such a manner as to stimulate the Sensorium & reacts again upon the Arterial System. These are not always proportioned to each other. When the Constriction is more violent than $\frac{1}{2}$ Irritation the Paroxysm will be long. The Reverse Case gives shorter paroxysms. The violent Constriction occurs in Inflamm: Fevers. hence Intermittent Fevers when they partake of the Inflamm: Distress are so easily changed into contin: Fevers. Very Irritation applied to the Arterial System increases the Spasm in an equal Degree. Thus Cold excites Inflamm: in the Arterial System, & of such



a Degree as to be difficultly resolved. This
then gives us another View of Reason
why some Paroxysms of Fevers are longer
than Others.

Here a natural Question occurs. if
a Pyrexia arises ^(this) not from Debility or
Phlegmnia what shall we call it? such
a Fever is excited by cold Bathing. But
this a transitory Affection should not be
admitted so as to form an Order. If ever
it is permanent It is accompanied ^{the} w.
Surprize or Fever; but this being it
back to the Fevers arising from Debility
or arising from Congestion being previously
formed before the Body is ~~exposed~~ ^{exposed} to
Cold. Do not direct Stimuli produce

Po

lit

Re

to

li

Whit

bro

whic

Par

Spa

Pro

Bin

a

Gras

dat

Poxxa? if they do it is by first exciting Congestion ^{which} reduces it to the Phlegmaria. But shall we say what to ^{disseminate} Insolation & various aerid Stimuli taken into the Body? I much doubt whether such Stimuli act directly in producing Fever. They produce a Debility which disposes the Body to be affected wth Fever. The Insolation acts by exciting topical Inflammation. aerid Substances thrown inwardly produce general Congestions & therefore the Inflamm? Spasm. does not abundance or an inordinate quantity of Food produce Fever? I shall answer this Question hereafter

J
a
com
lise
con
vile
Kai
inly

the
end.

over

the

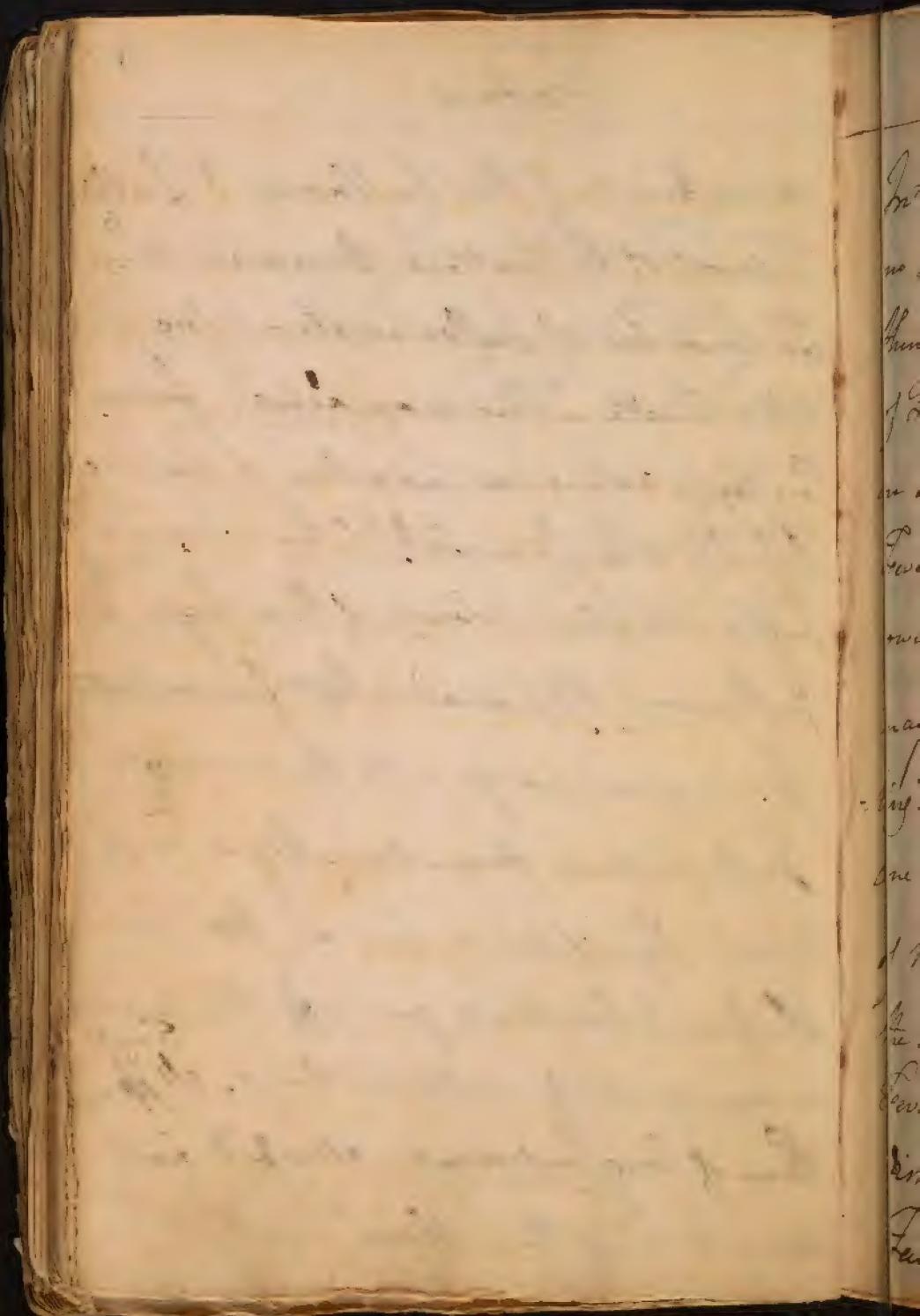
I conclude therefore that there is no Foundation for establishing a new Kind of Pyrexia distinct from Debility or Con�ation. a moderate Degree of Debility wth any Irritating Cause ~~do~~ induces ~~the~~ ~~less~~ a Phren w^{ch} irritates the Heart only & produces Inflamm^t: Fevers. &c.

I believe there are but two kinds of Phren viz: the Inflamm^t: Phren & that arising from Debility alone. The Phren in the nervous Fever dont depend on Debility alone. great Debility occurs in Inflamm^t: Fevers. I suspect therefore that all nervous Fevers have

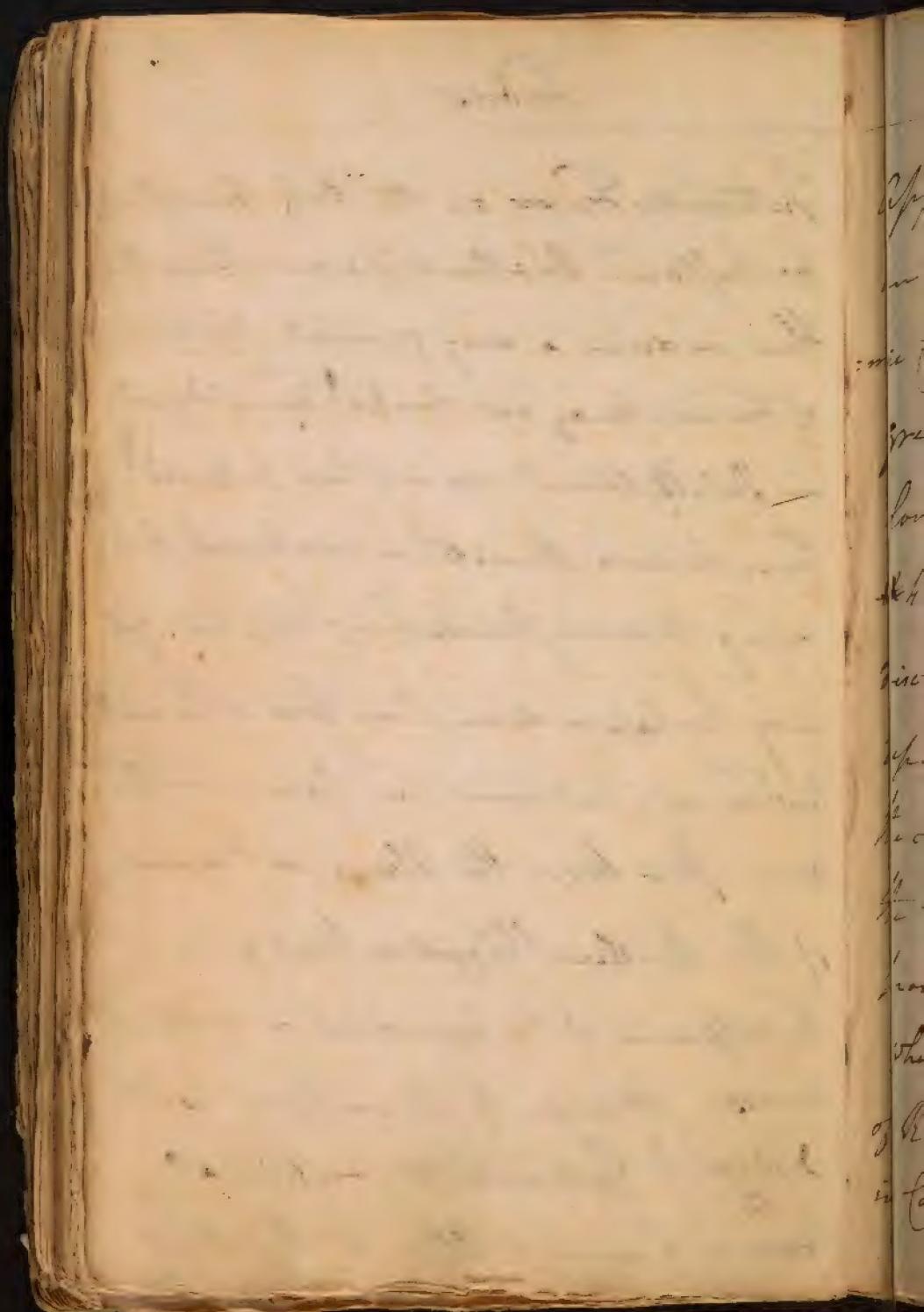
This is confirmed by an Observa-
tion of Dr. Cleghorn who tells us
y^r in all Internⁱ Towns w^{ch} became
contaminated he discovered evident
Marks of Inflammⁿ: after Death.
Dr. Pringle's Dissections tend to confirm
the same Opinion.

something of the Inflamm?[?] Diathesis
most of the putrid Diseases show
us marks of Inflammation before &
after Death. This may arise from
Contagion acting as ⁵ Stimulus[?] & thus inducing
Inflammation. Some of them begin w.
Inflamm?[?] Appearance, but from repeated
paroxysms change into the nervous.

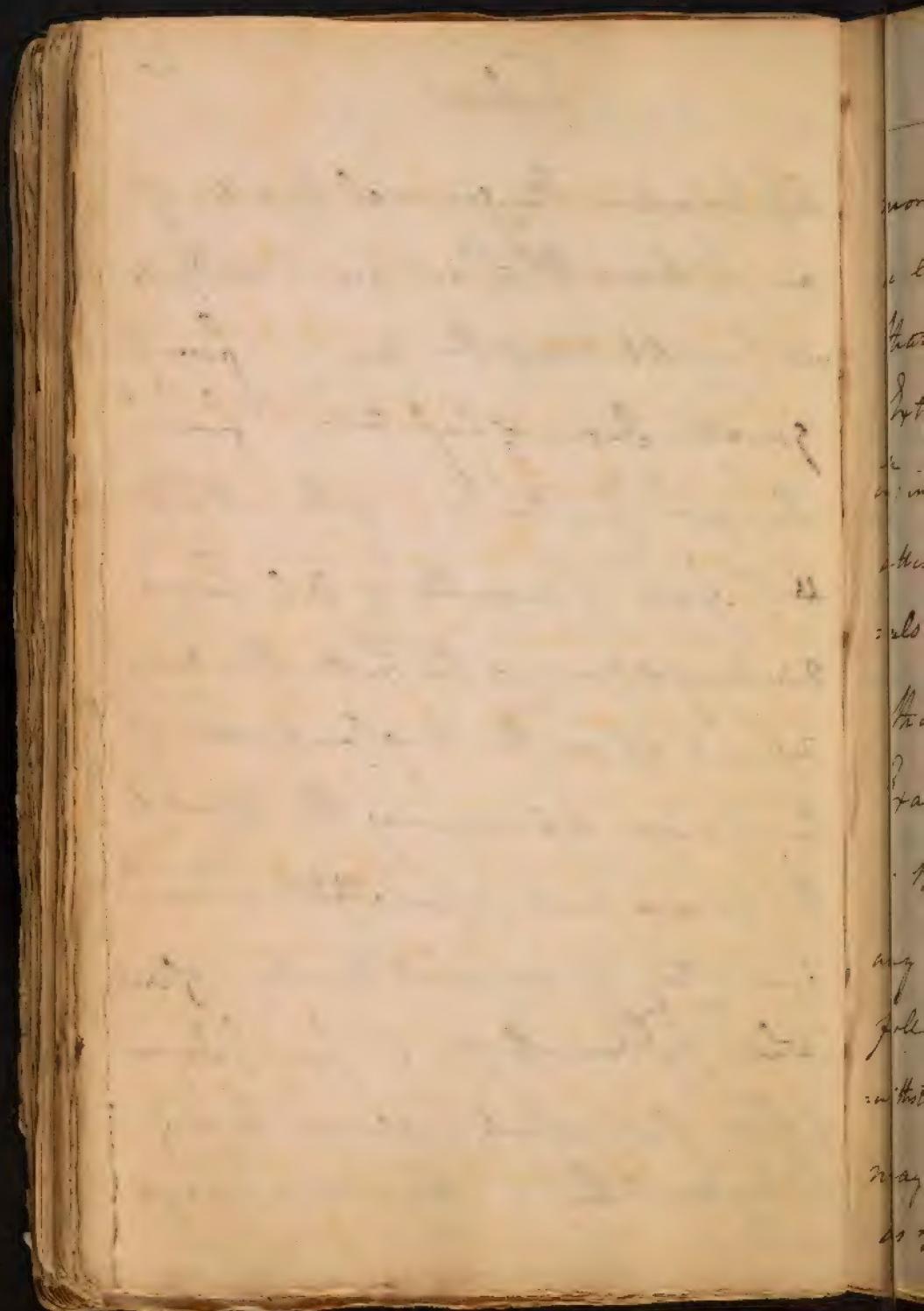
Intervallents sometimes begin w. In-
flamm?[?] Symptoms, but as ~~this~~ this
Inflamm?[?] Diathesis goes off they ² become
more regularly intermitting, all ^{Fever} ~~of~~
then of long Continuance attended with
more or less of the Inflamm?[?] Diathesis.



Intermitting Fevers are the Only Ones where no Inflammation appears. From this then we derive a very general Division of Fevers. may not Continual Fevers depend on Debility alone? no - where Intermittent Fevers become Remittent or continual it is owing to some stimulus being applied. It may perhaps in some Cases form a Remitting Fever, but never can form a continual one. It is then the Absence or Presence of the Diathesis Phlogistica that gives us the difference of Intermittent or continual Fevers. If were to be wished we could distinguish Intermittent & continual Fevers from each other at their first



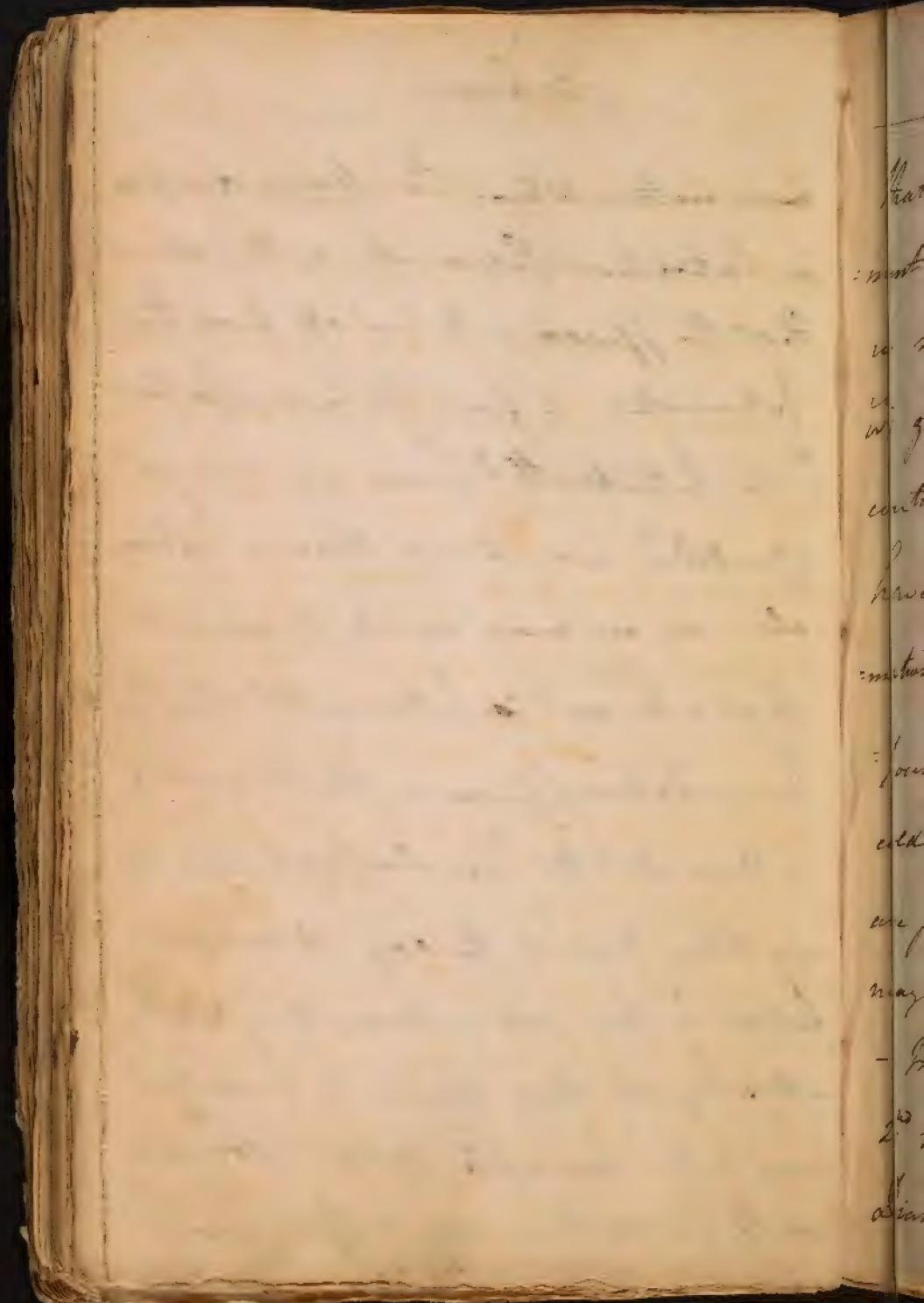
Approach. the general Marks of
an Intermitt^t. Fever are ; in an Epide-
mic Constitution of the Year 2nd from $\frac{2}{3}$:
greater Degree of Latitude 3rd from $\frac{2}{3}$:
longer Continuance of the cold with $\frac{2}{3}$:
~~the~~ 4th: from a Quantity of Bile being
discharged during the Sift. This may
depend upon the long continuance of
the Spasm determining the Blood to +
the Viscera, more especially to the Liver w:
promotes an increased Secretion of Bile
which by vomiting ^{we know} 5th from $\frac{2}{3}$ Degree
of Remission which is always longer $\frac{2}{3}$:
in continual Fevers. This mark is always



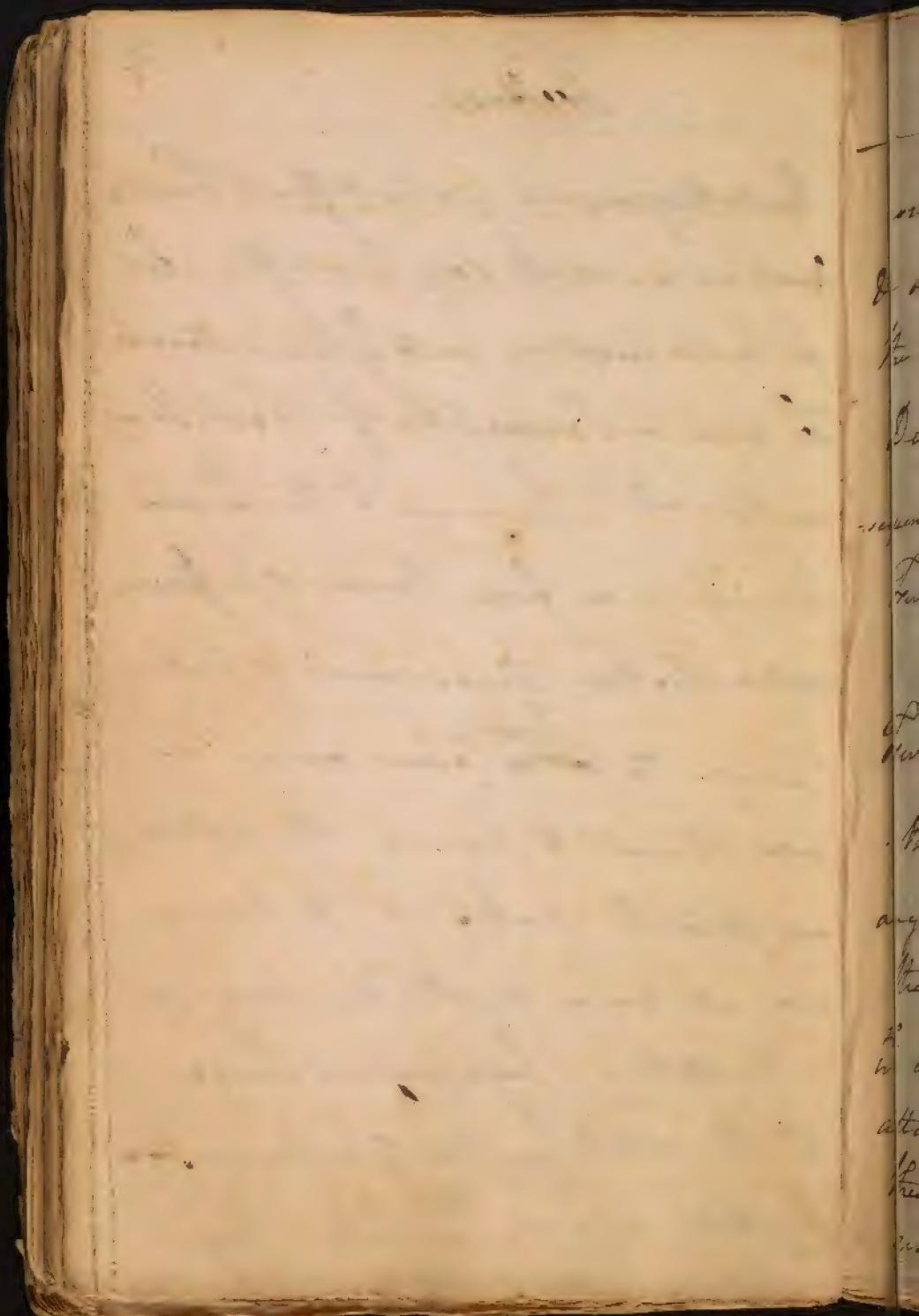
Fevers

61

more certain when the Urine drops
a latencies sediment, as this shows
that the Spasm is taken off from the
extremities. & from the exacerbation
in Intermitt^t. Favers are always
attended ^{it} w^m more Horror than in Continu^s,
als. we are more surely determined
that a Fever is Intermitt^t. when ^{the}
Exacerbation appears in the morning
. But sh^t? the Exacerbation happens at
any other time of the day it does not
follow ^t: It is not intermitting. notwithstanding all these Marks Intermittents
may so far resemble continual Favers
as to change their very nature insomuch.



That they require a very different Treatment as we shall say hereafter. Let us now enquire into ^c Circumstances w^t give a Presumption of a Fever being continual. These are ^{on the} the Fevers having no one from Causes of Inflammation whether Occasional or predisposing. the former Causes occur in cold Climates & Seasons. the latter are Stimuli of all kind. To these we may add warm weather succeeding Cold - Imitating - high Seasonal Food & ^{at} the actual Symptoms of Inflammatory Diathesis such as a hard pulse - high



Febres

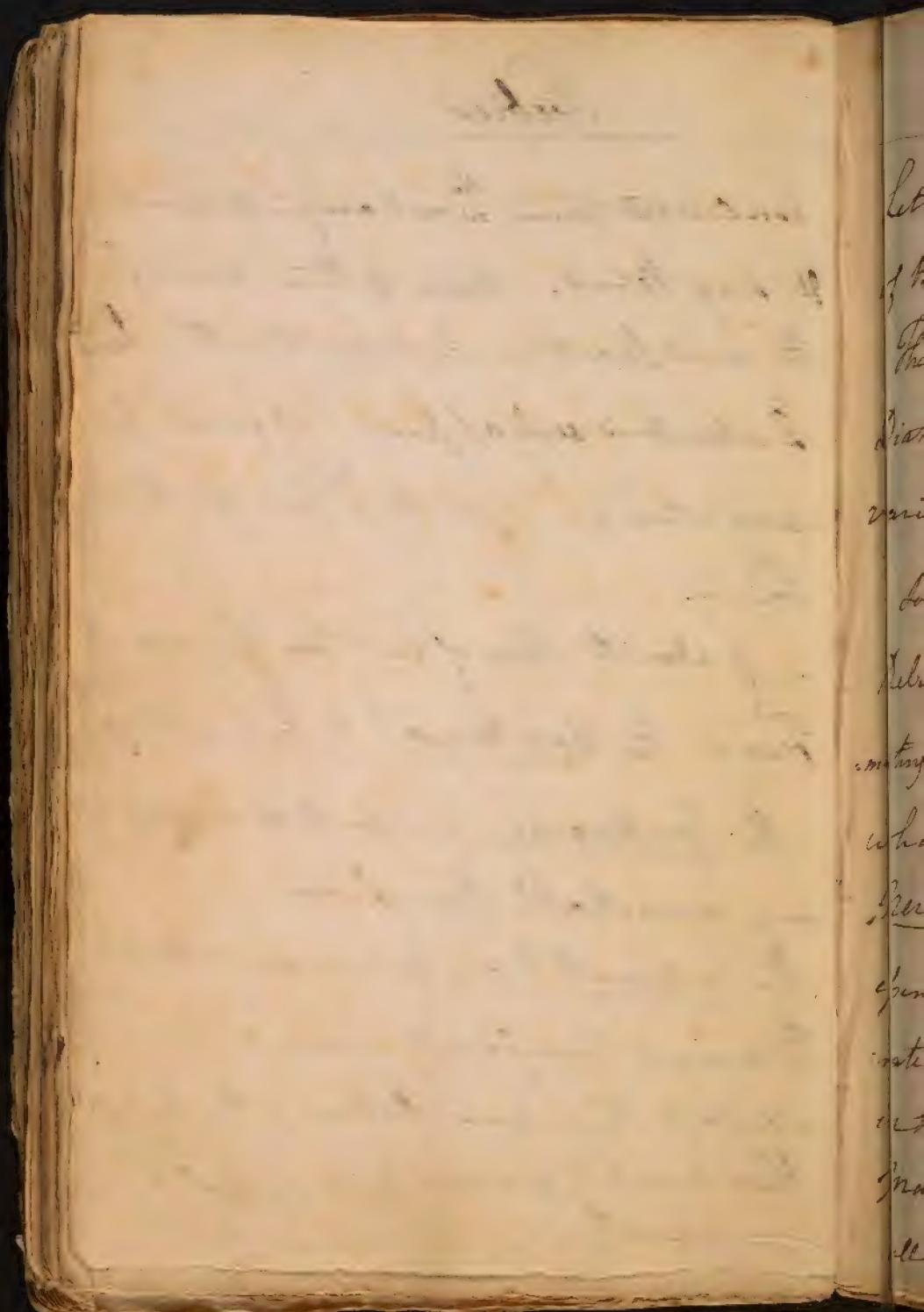
69

coloured urine without any sediment & very Blood. none of these occur for the most part in Intermittents these Distinctions will appear of great consequence when we come to ^{the} Case of these Powers.

I admit then of but two Genera of Fevers the Continual & Intermitting.

The Continual are such as are without any remarkable Remission.

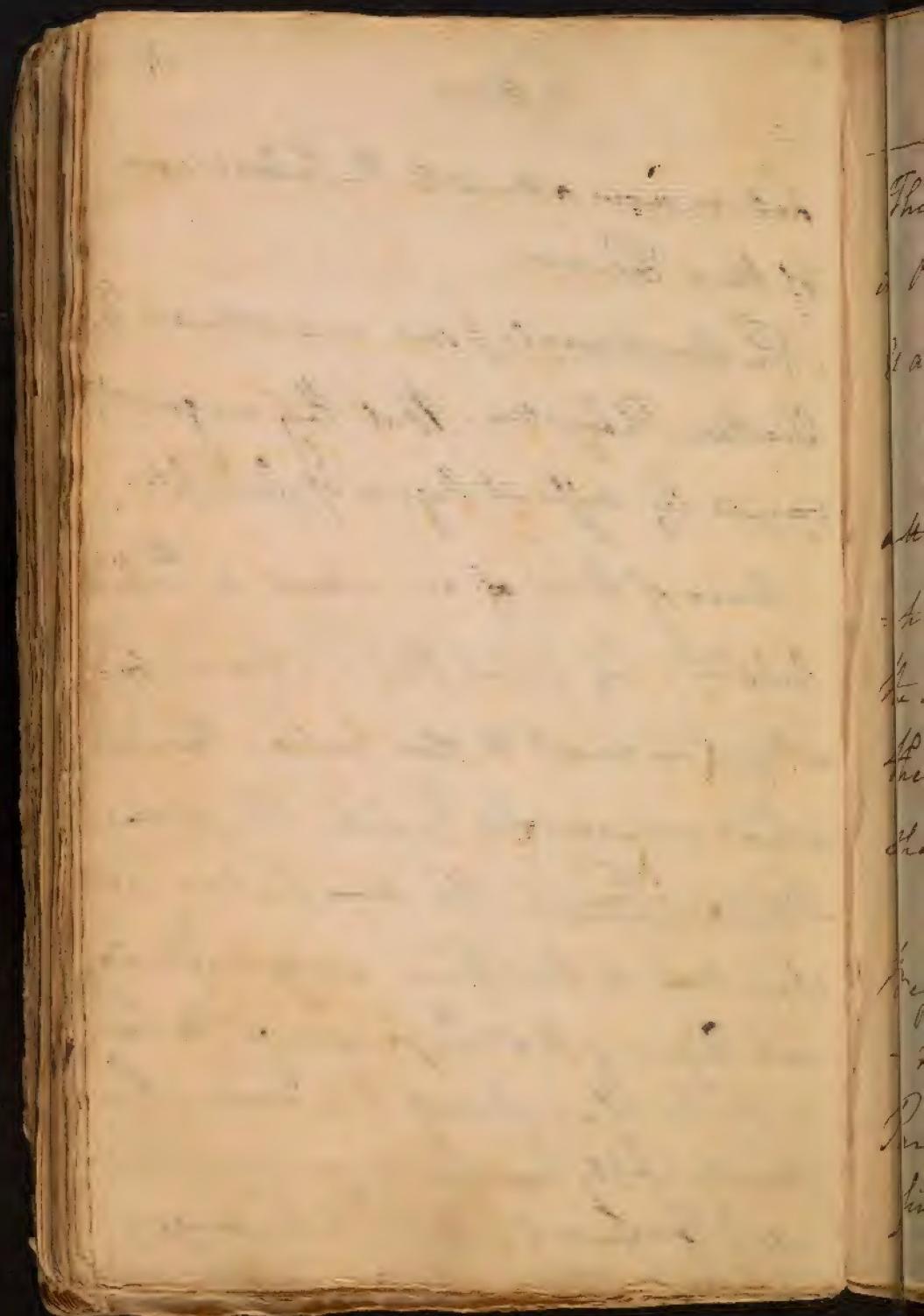
The Intermitting are such as are attended wth evident Remissions & have a Flavour attending their exacerbations. The last of these marks I grant is not very absolute or universal.



Let us now attend to the Subdivision
of these Fevers.

The Continuals I said were attended w:
Diatheria Phlegistica. But they are greatly
varied by different Degrees of Debility.

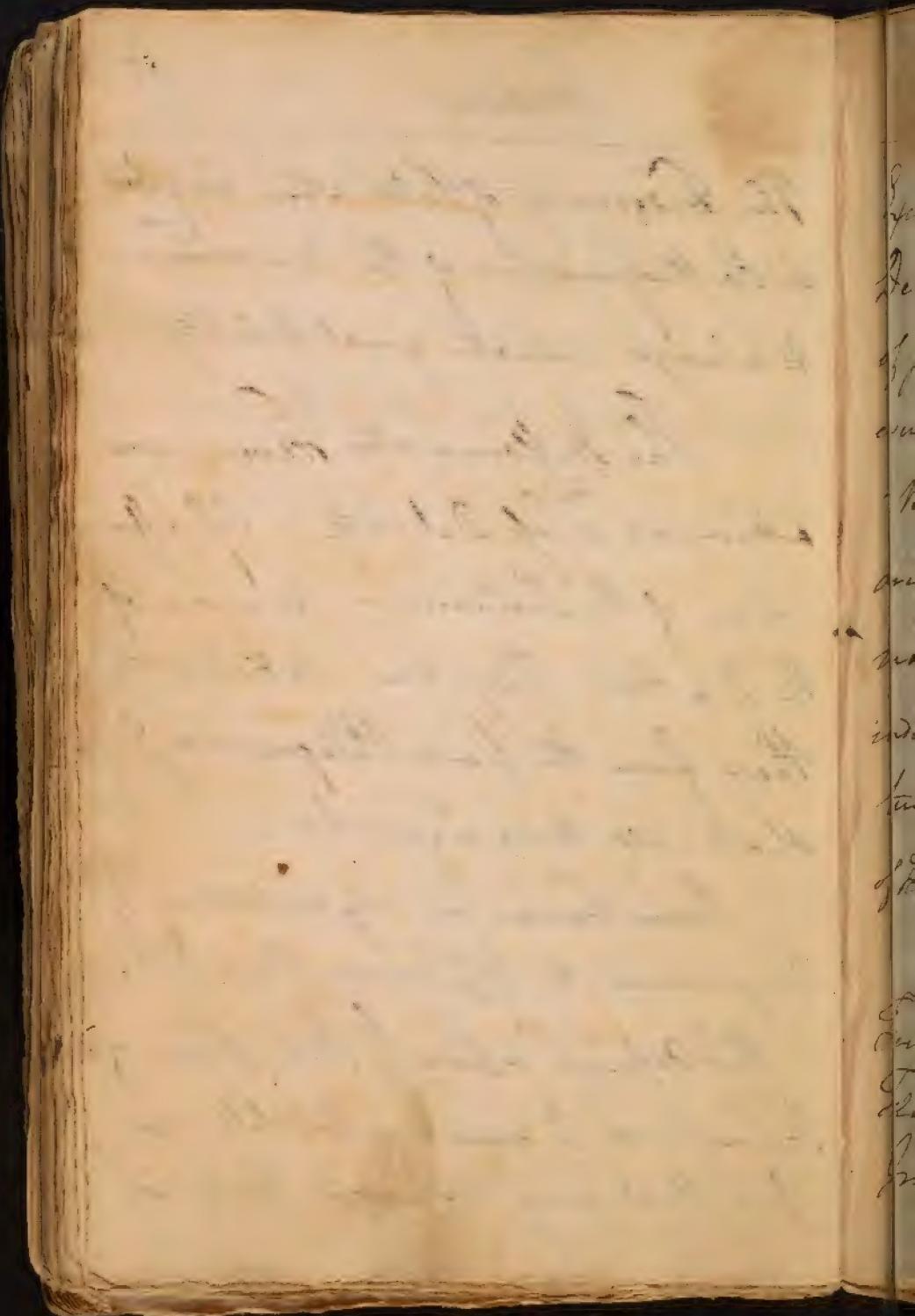
Some of them are ushered in ^{the} with
Debility - by great Fever - Coma - so-
miting - low weak & slow pulse. These are
what are called by English Physicians
Nervous Fevers. The slow pulse is not
essential to this Fever, nor yet ^{the} if mode-
rate Degree of Heat w: Scarvaige takes
in to the Character of this Fever. These
Marks apply however in general to
all ^{the} Goaspins of Typhus in Scarvaige.



The Frequency of Pulse when very low
is Pathognomonic of the Nervous Fever
& always indicates great Debility.

The Inflammatory Fevers are
attended wth Debility - loss of
action of the Sensorium & more of
the Dia thesis Phlogistica. to distinguish
these from the pure Phlegmasia I
shall call them Lymphœma.

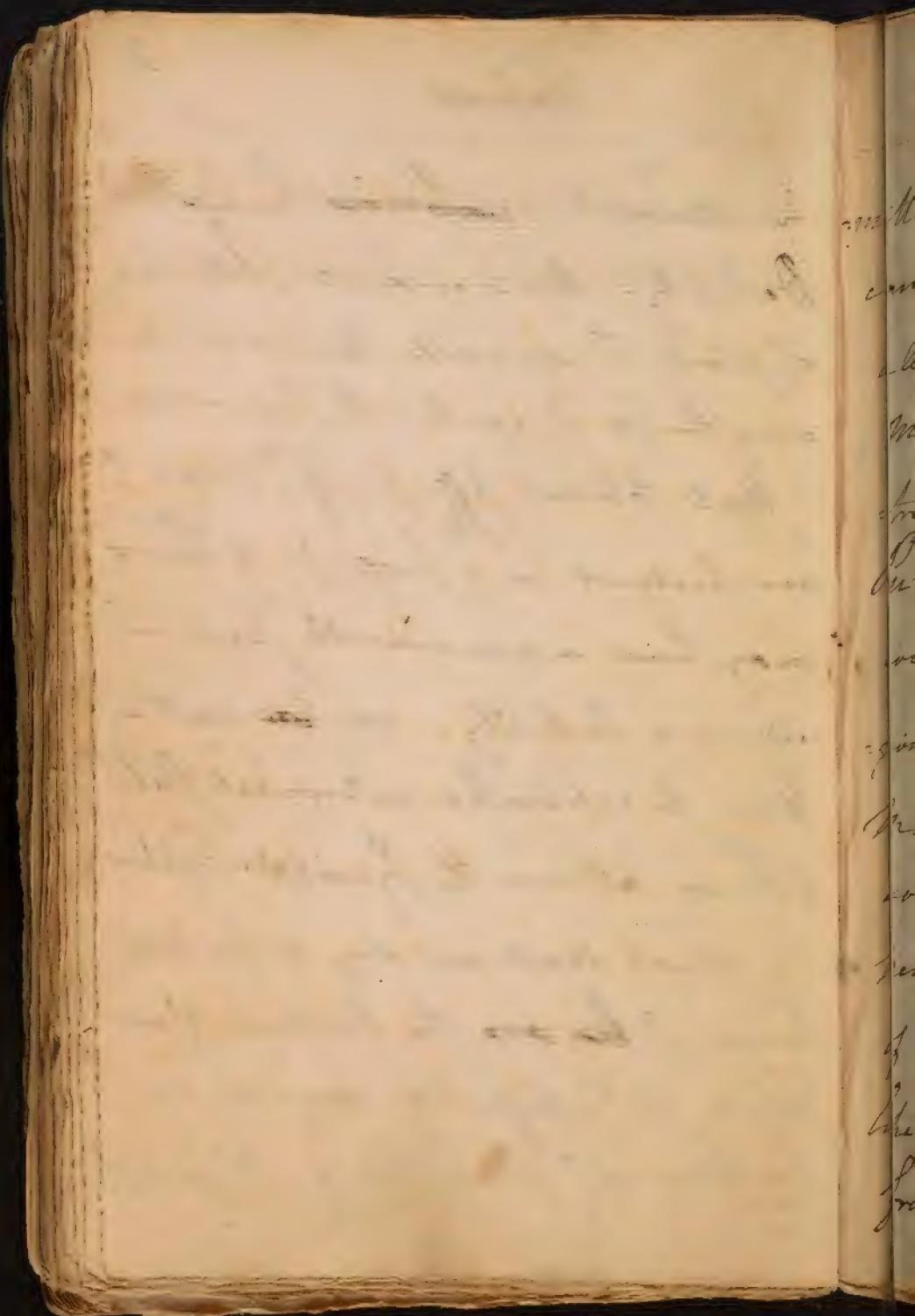
Some Fevers are Synchronous in ^{the}
beginning & tympanous in their end.
- This depends upon ^{the} Repetitions of
Paroxysms wth increased Debility. we
find that every increased state of



Syphilitic Debility. This is evident in the Case
of Sleep ^{which} succeeds Exercise or
any thing ^{which} excites the Sensorium.

But topical Affections of the Brain ^{which}
are produced in ^{the} Progup of Fevers
may have a considerable share in
inducing Debility. we ~~too~~ want a
time to explain this intermediate state
of Fevers between the Synchastic Typhus.

What shall we say to putrid
Fevers? ~~they are~~ the tendency of our
Fluids to Putrefaction occurs in
Inflammation Remitting - & Inter-



with Fevers no Distinction of them
can be taken from Putrefaction.
all Fevers from increased Heat-
Motion & Debility tend towards Pu-
trefaction, but those Fevers w: areal
Putrid may be distinguished from
common Fevers. The putrid Conta-
gion generally affects in such a
Manner as to appear most in
continual Fevers, & those too of the
persons freed from the sedative power
of the Contagion. putrid Fevers
likewise begin ^{the} w: inflammable Symptoms
from ^{the} Contagion acting primarily.

22

Recd

Mar

Jan.

Ma

Aug

Sept

Oct

Nov

Dec

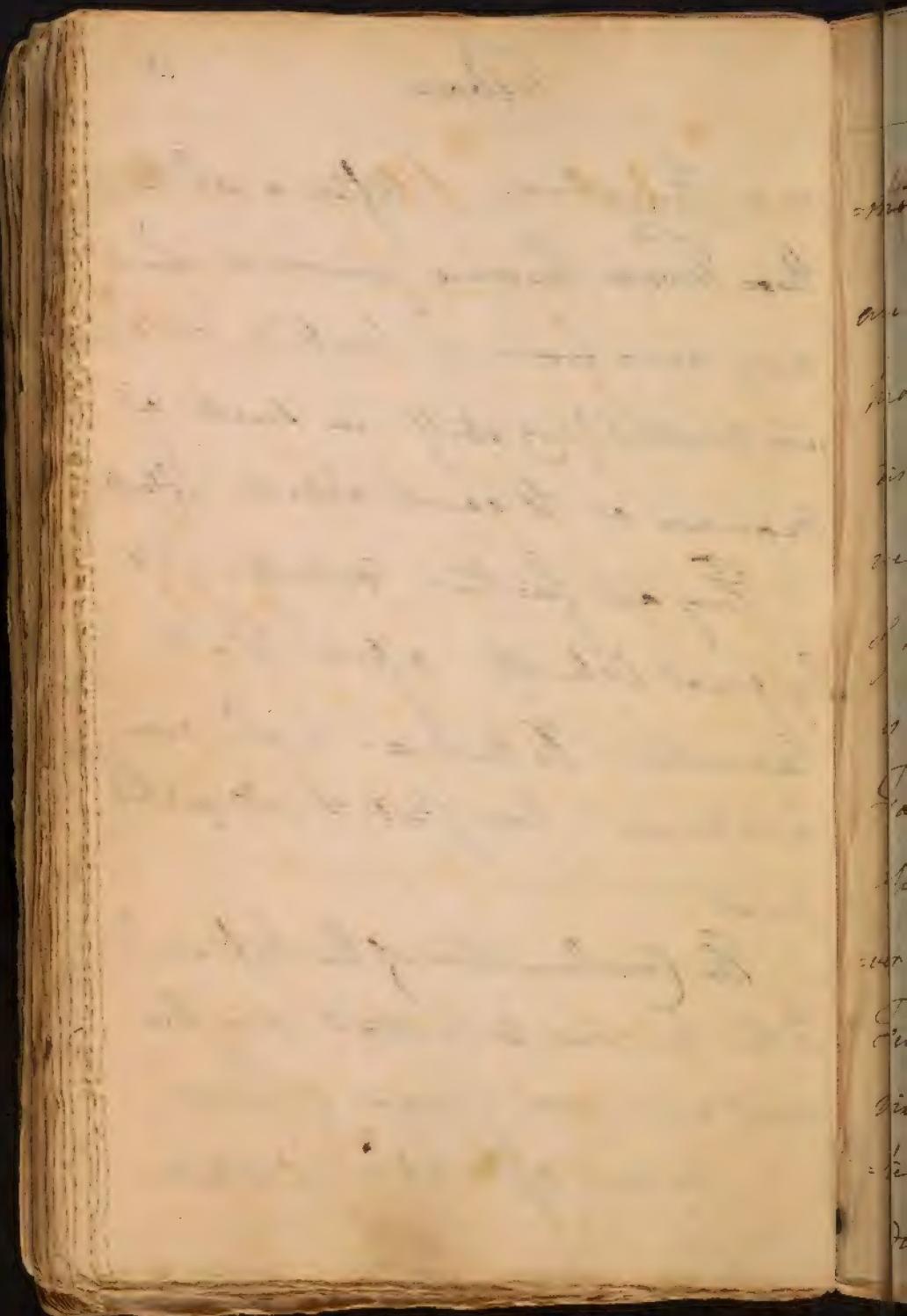
Mo.

as a Stimulus. - After a while
these Fibræ become nervous which
may arise from $\frac{2}{3}$ putrid Conta-
gion multiplying itself in such a
manner as to exert Lethal Effects.

- They are further distinguished
by great Debility - dissolved Blood -
Hemorrhages Petechia - high con-
sour'd urine - loose stools & colligative
frosts.

The Combination of the Inflamm.
wth the nervous & putrid give the
most common genus of Fibræ.

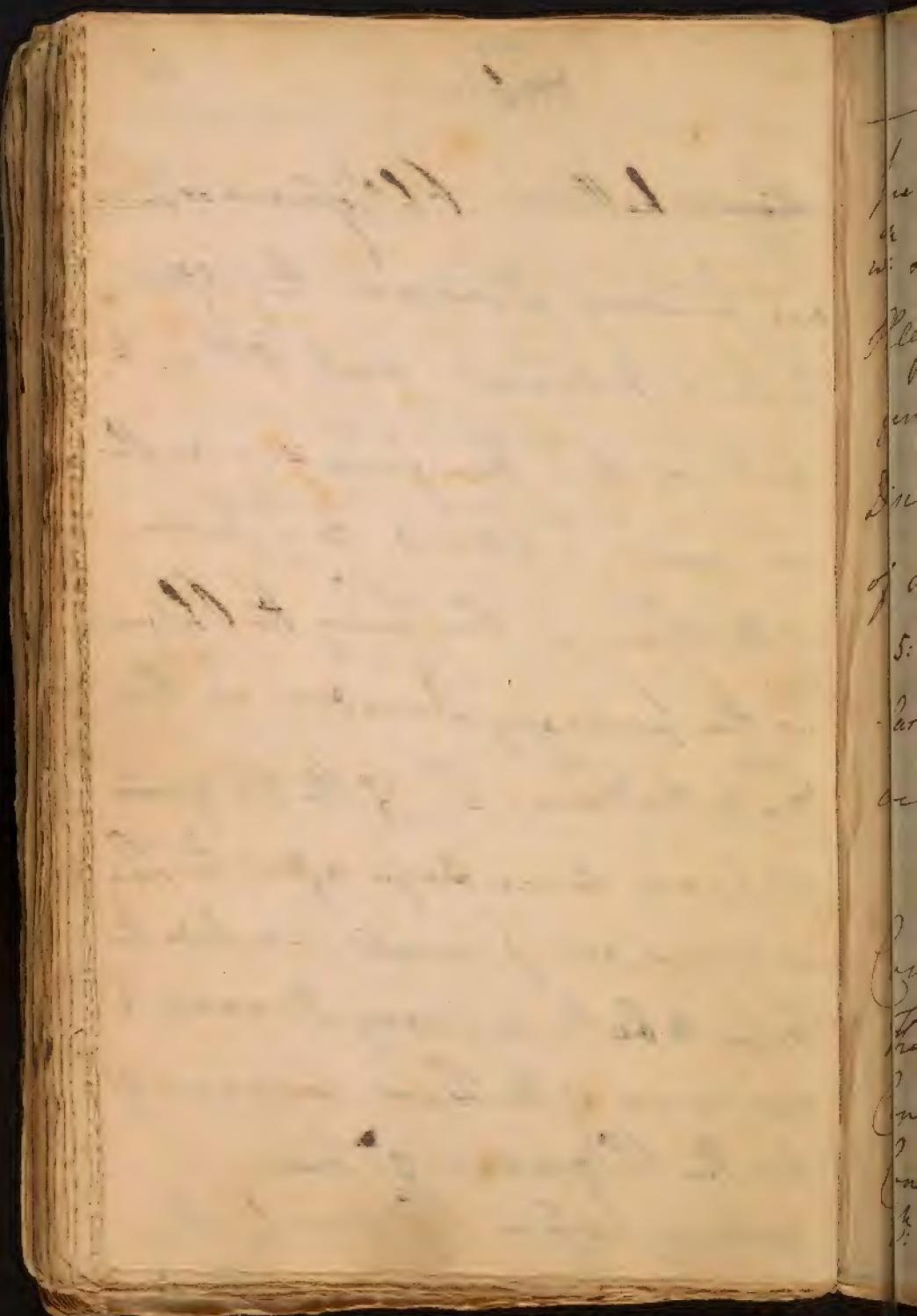
We are often at a loss to deter-



Feb

69

mine whether Phlegmnia or Fever
are primary Diseases. They often
produce & succeed each other. to
distinguish them from one another
we must attend to 2^d season
of the Year. in the Spring the Phlegmnia
is the primary disorder. in the
Fall the Fever. 2: If the Phlegmnia
appears some Days after the Fea-
ver comes on I would conclude the
Fever to be the primary Disease, &
vice versa if the Fever comes out af-
ter the Phlegmnia. 3: Fever is
distinguished from Phlegmnia by the



prevailing Symptoms of Debility
w^{ch} seldom or never occur in the
Phlegmatis. & the Phlegmatis is very
generally known to be a primary
Disease from the common Symptoms
of Inflammation.

5. Fever is distinguished by re-
peated & accerbations w^{ch} seldom or never
occur in Inflammatory Diseases.

There is another seeming
Complication of Fever w^{ch} is Anthemata.
These are sometimes excited by
Contagion & sometimes by an other
Consequence of Fever. The Anthemata
w^{ch} are Effusions of Blood do not

don

awa

post

out

intra

an

and

trans

at H

in P

bus,

but th

only.

on C

belong to this ~~disse~~ Order, but are
always symptomatic & are generally
produced by Putrefaction. The small
pox & measles depend on Contagion
introduced, & therefore do not form
an instance of the Complication we
are speaking off. There are other
warm disputes carried on between
De Haen & some other Physicians
in Vienna concerning these exanthema-
tous fevers. The former supposes
that they depend on a warm Regimen
only. The latter assert that they depend
on Contagion in the same manner.

l
w
h
t
a

alo

are

not

can

re

to
wou

g
ab

ting

hil

ova

ipp

na

o
ja

as ^{the} small pox. I do not think
that they are the Offspring of Fever
alone as De Haen imagines. They
are certainly of a contagious nature,
notwithstanding they were never ob-
served till the last Century for many
Diseases have prevailed for many years
without being described by Physicians. All
I allow is that many Fevers by a suc-
taining Regimen may terminate in a
military eruption. But this eruption
now changes to an opposite puerulent
appearance like the puer Lanthe-
mata. This Observation I grant is
liable to some exceptions. all military

Trup

ang
loph

rie

Chit

in

Eng

Pan

ld a

Fun

Att

2

Lab

tgia

leiz

Febrer

13

Ruptions are accompanied ^{the sweat-} by now we may suppose a pecu-
liar state of System & skin w: disposed to
miliary eruption. This is ^{the Case in}
Child Bearing women who always
in this Country have a miliary
ruption when I have been evi-
dient no Contagion of any kind prevai-
led among them. There is an Actor ^{the}
Genito w: I cannot describe ^{it} always
attends these miliary Ruptions ^{the}
or the Consequence of Fever. a miliary
ruption attend many putrid con-
tagious Fevers, but as all are not
seized ^{the} w: them, & as it does not

I
Drea

Time

Storm

I
Buy

List

Trade

want

Time

inv

for

on

for

the

can

break Out always at a precise
time, finagin no military
Ferment was introduced but y^t the
Insurrection depends upon ^{the} great
Disposition w^t these Towns have to
Sweat. In this Manner therefore
would I compromise the Disputes at
Vienna. upon the whole I am much
inclined to embrace De Koenig's Opinion
I do not determine w^t Towns depend
on Contagion. —

Having disposed these 3 Genera
of Towns I shall now proceed to the
4th & last Genus viz: the Postuvia. I
cannot here comprehend Glomorphoses

to

city in

some

London

to

Han

over

the

Hope

of

the

map

the

exp

that

in

the

so universally. When a Fever occurs in Hemorrhages it is owing to something particular in certain Constitutions. I shall confine myself then to the Profunia. Janus ranks several of the ~~Profunia~~ Profunia among the Fevers which do not belong to them properly. do Catarhs belong to the Profunia? I shall arrange them under this Genus. The Catarh is a Sympto-
ma ^{of} a Disease. It is produced by some Cause which produces Fever. They often depend upon Matter introduced into the Body as in the Measles & Other Inflammations of Fever. These kind of Catarhs are to

be
at

more

all

at the

Palon

24 km

of P
at

at the

24

and

24

and

be resolved to the Genera of Fevers,
but when they arise from Cold they
more properly belong to ^{Cold} Pneumonia.
all the Anginas Coughs &c. such
attended wth Exanthematosus Inflammations
belong to the Genera of Fever or Febr:
tremata.

Besides all these there is a Genus
of Pneumia not yet reduced to any Order
that is the hectic Fever. This Disease
suffers exacerbations at the diurnal Periods
Our Pulse is slower in the Morning
increases till noon, towards Evening
becomes slow again & a little later
becomes quick. the Hectic Fever is

more

19
This

line
the top

also

is he

is diff

the th

ways b

wo do

loiy

alw

the

per

increased remarkably at each of
these Periods . Is there any Idiota-
thic Hectic Fever ? not connected
w: topical affection? no . It always
arises from some topical Disease, &
is never Idiopathic . Sometimes it
is difficult to distinguish or point out
the topical Affection, nor can we al-
ways tell how it excites a Fever when
we do perceive it, But from Ana-
logy we may conclude the Hectic Fever
always to occasioned by ~~that~~ upon
the whole then I conclude y: the
Hectic Fever ought not to be a separate

Opus

abro

ve

Johann

is leh

w. h.

Festiv

: brian

Pa

sim

C

(

ma

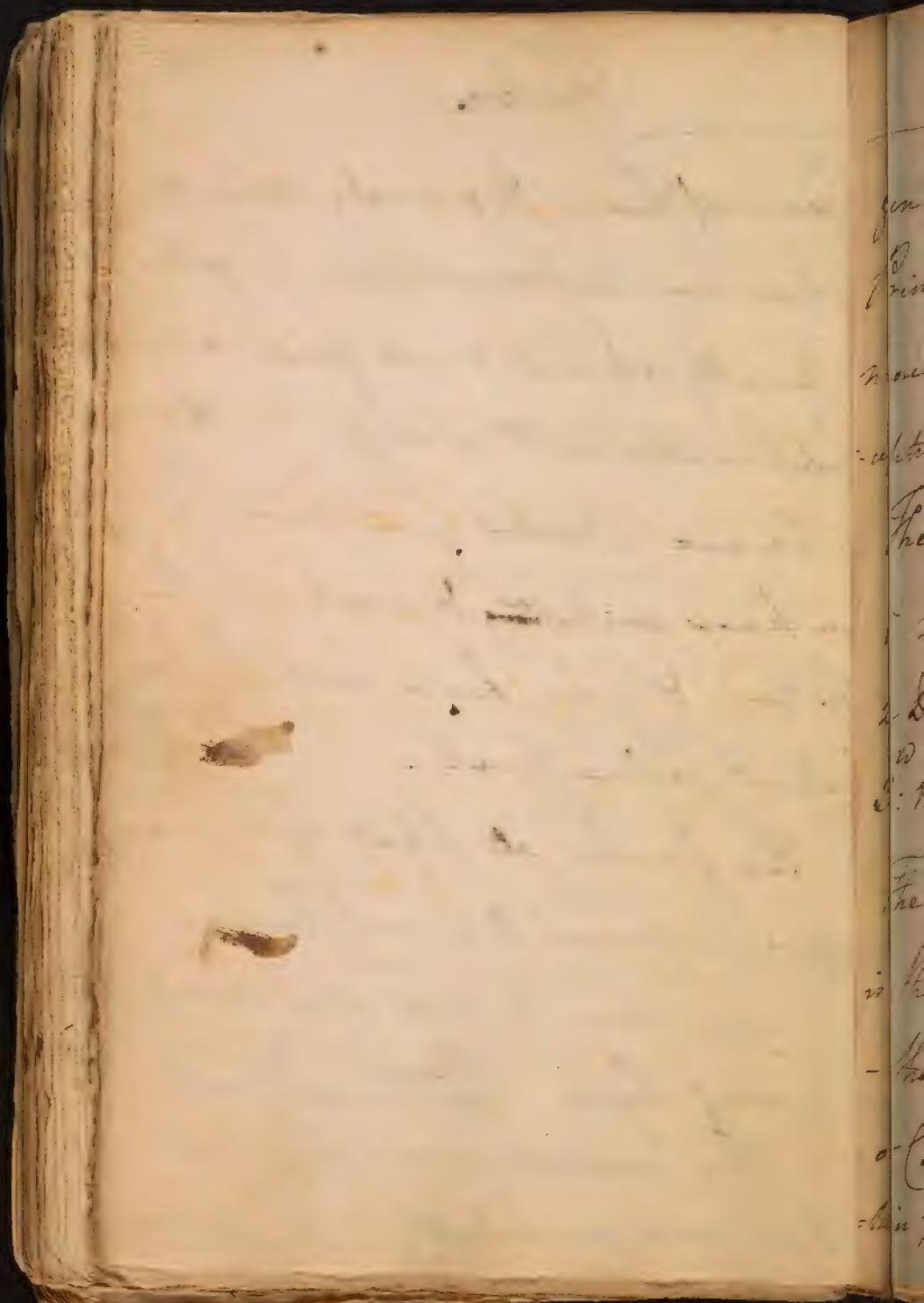
ha

genus of Fever. It generally depends upon an inflammatory Congestion especially when it arises from a Suppuration in the Lungs. Matter is likewise absorbed from Ulcers ^{as} we know irritates & weakens the System. & from hence arise ^{the} febrile & profuse Sweats.

This finishes all that to day concerns the General Division of Fevers.

I come now to treat of ^{the} remote Causes of Fevers. Remote Causes

The proximate Causes of Fever we have said are Debility & Congestion.



generally speaking. for there is no
Principle in any science much
more Physic, but w^t is liable to 4
options.

- The chief causes of ~~the~~ Fevers are
- 1 Extraneous Bodies introduced.
 - 2 Debilitations of the mind.
 - 3^w the action of Cold.

The Introduction of foreign Matter
is the most general cause of Fever.

These matters are either Miamita
or Contagious. the Miamita are cer-
tain particles arising from morbid bodies

d R

7 Ba

as

g Br

Thur

Ch

Cus

in

G

to Re

Gas

920

alwa

spou

H

in

of man. Contagion arises from
the bodies of men likewise & repro-
duces itself. I shall first speak of
the Origin of Miasma & speak of
their Diversity &c. treat of their
Operation in Conjunction wth other
causes in producing Fever.

i: Origin. - Miasma are owing
to Heat & Abundant moist in warm
seasons & warm climates. they are
mostly destroyed by cold. the plague
always uses to rage in cold Countries
upon the Approach of winter. even
the Catarrhus Synochus is checked by cold.

Geo

we

of La

ways

supp

J
a Fr

: oth

cal

lin

pro

part

ber.

fin

I conclude therefore that miasmata are produced by heat & any offspring of fermentation. They are not always of a putrid nature as some suppose. the small pox depends upon a ferment but is not a putrid disease notwithstanding. the most however

that Miasmata are generated ~~so~~ in animal bodies. Mephitis air we know exhales constantly from animals that breath. perhaps too mephitis air exhales in Respiration. now this Mephitis air is highly freative;

Bta

jut

his

thir

if

an

viru

leg

of

state

will

on

by

Ob

ba

It takes off $\frac{1}{2}$ excited state of the
Innervation at once. a Diffusion of
this Mephitis air in $\frac{1}{2}$ Atmosphere
tends to destroy its Virulence. But
if it is long retained in $\frac{1}{2}$ Cloaths &
accumulated it acquires a peculiar
virulence & becomes capable of affec-
ting Animal Bodies. The Histories
of Jail of Hospital Towns tend to illus-
trate & confirm this Doctrine. Fever
will be greatly varied by $\frac{1}{2}$ different
men from whence $\frac{1}{2}$ Miamatacome -
by the season of the year by $\frac{1}{2}$ Climate
& by several other Circumstances of $\frac{1}{2}$
Nature.

Prec

abu

a la

The so

he or

part

Mem

Time

and

and

of P

in N

and

min

These Miasma multiply themselves in the human body, & produce a Contagium capable of producing the same Disease again. When they become Contagion they acquire a particular power, of affecting those whom the Miasma did not. But there is another source of Miasma arising from all other Animal substances. They are ^{not} always the offspring of Putrefaction. or the anatomists who are most subject to putrid Fevers who are so much conversant ⁱⁿ putrid Animal Bodies. nor do Excrements from

and P
of D
the P
w. the
first
met
F. e.
-er in
the
D. h.
P. o.
A. t.
it
D. h.
P. o.

we putrid Favers or ^{the} Inhabitants
of Edinburgh w^t soon be carried off
by them. I do not think w^t single
that the Human Faces have Anti-
septic powers. There is then a certain
stage only in putrefying Animal Substance
as in w^t they can produce putrid Favers.

Upon the whole we know of no
Exhalations but from Marshy
Ground that produces Favers. w^t is
the nature of these Exhalations?
the Sea & Lakes send forth no morbid
Exhalations. the Inhabitants of
Egypt are never subject to the

Pla
bo
A
t

Open
in
post

For
man

To be

The G

a Ma

reaso

dition
the g

exp

Plague but after the Recaps of
the Nile. How do these Exhalations
Operate? I have sometimes thought
merely by the Cold generated by Eva-
poration, but if this was ^{the} Case Lakes
of course w^t produce no Flowers as well as
Marshy Ground. It appears rather
to be owing to the semiliquid state of
the Fluid retaining Miasmata in such
a manner as to suffer them to be
raised by Heat. Water seems rather to
destroy them. we know but little of
the Nature of these Miasmata. Lancisi
says they are Organized & Inorganized

man

to the

com

real

qui

mag

are

l'out

prod

sp

liph

inly

go a

fun

many have attributed a great share
to the Organized Miasmata in producing
Towns. But this is merely Hypothet-
ical. Putrefaction we grant generates
animalculæ. but Heat & moisture
may produce morbid vapour and
animalculæ at the same time,
wout the latter having any share in
producing Towns. Besides we cannot
suppose these Animalculæ can mul-
tiply themselves in γ Human Body
unless we suppose the same process to
go on in the Body as first produced
them. I conclude then all Miasmata

are
2
ride

city
for E

see th

all P.

time

" think

great

have

are

on

part

but

are so organized

2: Let us now enquire into the Diversity of Miasmata: There is a Foundation for dividing them into Species. we see them operate uniformly on all Constitutions in all Ages & under Climates in the same way. I do not think the Diversity of Contagions so great as Dr. Lyman supposes. the Van Thurntus Genera show us y: they are very much limited. — all our Acquaintanceth with Diseases in all parts of the world has yet found out but so different Genera of Contagion producing

5 J

17

May

20

May

21

varie

22

being

Torda

distance

7 M

exalt.

x x

to favore. But even this Compa-
tition is too extensive. I think they
may be reduced to 3 or 4. But even
supposing they don't exceed 10 Genera
they are very much limited. many
Towns supposed to be different Genera are
varied rather in Degree than kind from
the Ferments (w^{ch} arise from Anim^e: Bodies)
being retained longer or shorter in the
Bodies it exhaled from, or from Circum-
stances of a like nature. By w^{ch} means
~~of~~ ^{the} Ferments are more or less
exalted to use ^{the} language of our Schools.
many Circumstances diversifie Con-
tagions

inde

to
the

Con

in me

the

self

one

Lithu

Conte

Cast

the

man

the

independant of the different Degrees
of Virulence in the Contagion.

These Circumstances are in the
Constitution of the Patient this
is most evident in the Small pox we
often see the same Matter produce very
different pox in different Constituti-
tions. the Nature of Epidemics show
likewise how much the Diversity of
Contagions depends on the Difference of
Constitutions. Some of these Epidemics
will affect Children only, some
men & women while others affect
Persons of a particular Country only.

2nd Th

Ope

An.

the m

hi a

the y

prim

an i

the p

atric

Centr

of h

2nd Pac

2nd: The State of the Air varies the Operation of Miasma. warm Air destroys the Contagion of ^{the} Miasma: it does in some measure. a cold Air destroys the Miasma ^{it produces} the yellow Fever. Dr. Lydenham has pointed out how much Epidemics are influenced by the different Qualities of the Air. He indeed attributes it to a specific difference in the Contagion but I think all ^{of} variety of his Epidemics may depend upon the Causes we have been treating off.

at all

& Co

in his

ding

Dinner

by the

stone

lim

also

all a

bits

Cause

bodies

apt

Dr. Bphorne Dr. Lofti Lancisi
& Colins Aurelianæs who wrote
in different ages all agree in descri-
bining the Febrile Fever as ^c same
Disease & varying in ^c same Manner
by Changes in the Air & ^c Other Circum-
stances we have spoke off. in the
same Manner the Bilious Fever
appears to be ^c same Disease in
all ages & Climates. this I prove for
it's always being produced by ^c same
Cause viz. Exhalations from Animal
Bodies or Marshy Ground. Books are
apt to mislead us in their Histories of

Th

wo

h

w

th

an

er

th

3^o

th

th

th

no

my

or

Epidemics. It is but within these
50 Years that Authors have written
with any Precision or Accuracy on
this Subject & the more precise &
accurate they are the more we are
unbiased of the restricted Number of
the Genera & Species of Fevers.

3^o: we come now to enquire into
the Operation of Contagions.

This Operation is very limited.
They dont affect Persons universally,
nor Families nor Cities. This
may be owing to several Causes such
as 1^o: Contagion is not always Applied

to ou

wash

tapins

try a

it be

-ti

in

man

Pag

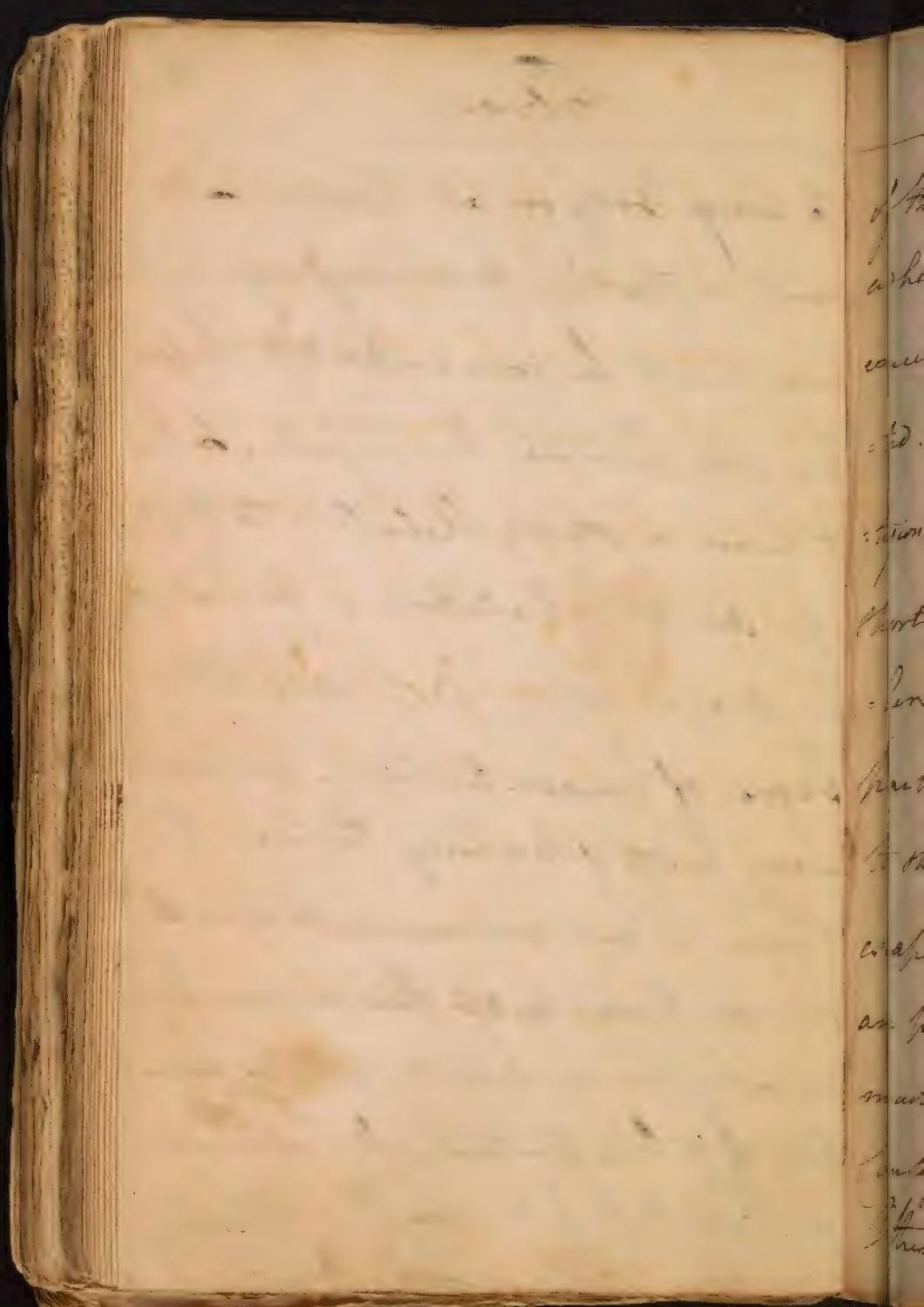
gine

carre

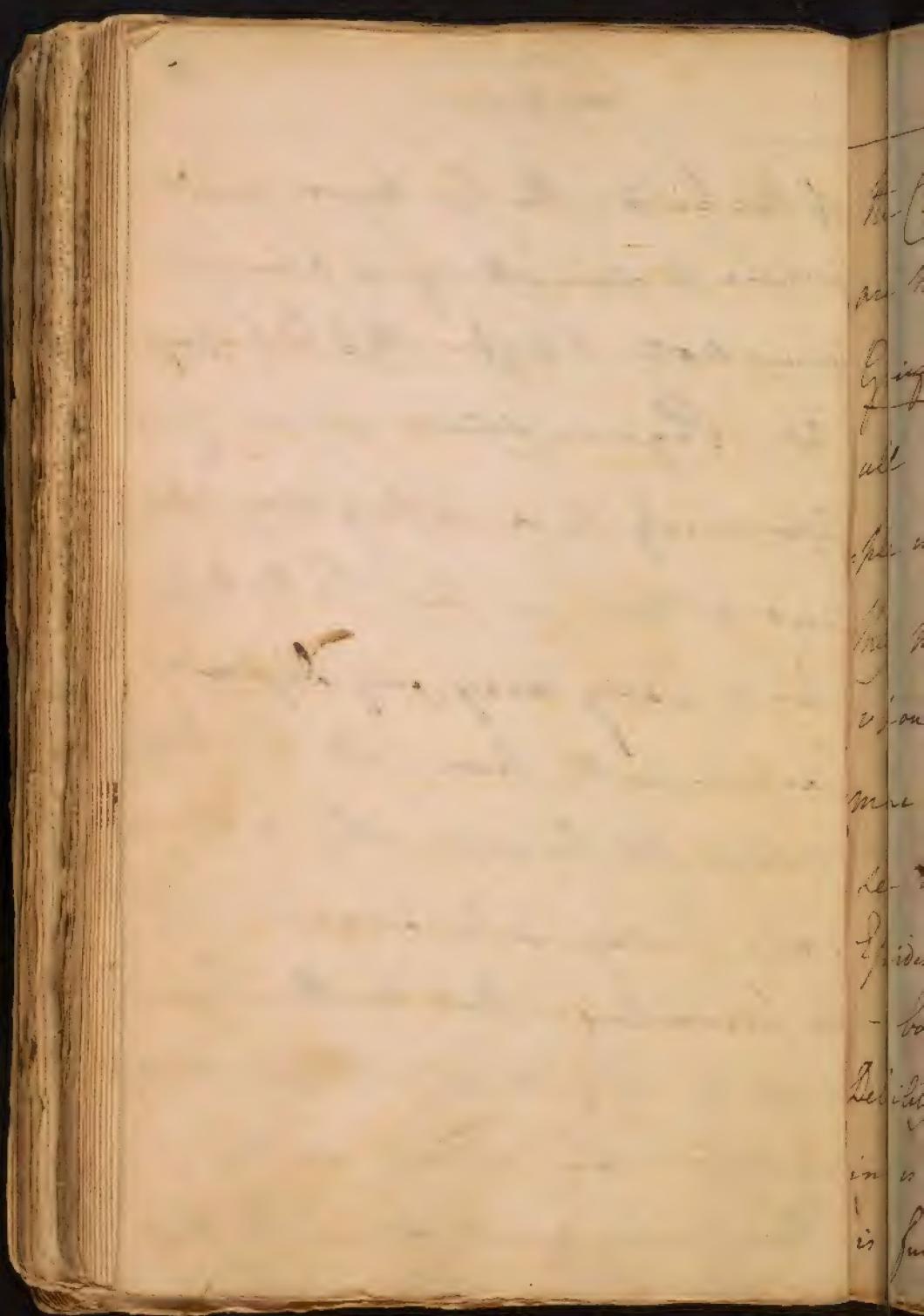
ring

on t

to every Body or at least in a too
weak a State. It is necessary Con-
cupisces should be concentrated before
they can produce their Effects. In this
it bears a strong Relation to Mephiti-
tic Air & Exhalations in general,
which always act in proportion to their
Degree of Concentration. we have
many proofs of this being the Case. the
Plague is not communicated by an ad-
joining House unless there is some Inter-
course by Furniture or Cloth or some-
thing of a like nature. Dr Lind's Treatise
on Fevers & Infection is full of Facts



of this kind. The Contagion must adhere to something in order to concentrate it sufficiently to be propagated. Physicians seldom convey Contagion merely because they stay too short a time in their Patients Chamber to carry away any degree of particles with them. all this tends to show the Reason why so many escape Contagious Diseases while they are prevailing. But another Reason must be assigned why Persons escape Contagious who are exposed to it. Other powers must concur to give



the Contagion its full force. w:
re have powers? the Passions of
Grief & Fear are the chief. hence
all Epidemics affect more Peo-
ple in their Beginning than after
they have continued for some time
upon ^c Acc^t: of Mankind being
more used to the Terror of them. we
see too often Persons most subject to
Epidemics who are most afraid of 'em:
both these Passions act by inducing
Sobriety. Another power to be called
in is the action of Cold. Dr Lind's Book
is full of proofs of this. Does ^c Cold

ant
ly
both
trade
you
Cap
then
will

place

the

mean

ant

for

action

o

not by inducing Debility or a Spasm?

I shall show hereafter perhaps in
both ways. Every thing else that
tends to bring on Debility such as
Vomiting - Isolation - Exercise -

Capsules &c tends to favour the
Operation of Contagion. ^{in all}

Epidemics the Concourse of those

exciting Causes is necessary to promote
the Operation of Contagion, & this is ^{the}

Reason why so many people escape
contagious Diseases. Some Contagious
I grant are independant of these ex-
citing Causes, such as Small pox.

In

Wm
Cass

upon
the po
the
other

new

tha

regu

but

of th

Linn

in he

the h

11
we

In some Cases too it is difficult to tell
when the Concurrence of exciting
Causes is necessary. It will often depend
upon the virulence of the Contagion &
the Vigor of the System to w^{ch} they are
applied. It will be greatly influenced
thero by Contagions affecting the Fluid.
When Contagions act as fermentants they
require the Concurrence of no exciting
Causes. hence the universal power
of & anæmato Contagions w^{ch} act as
Fermentants upon the Blood. Fermentants
w^{ch} have a less assimilating power require
the assistance of the exciting Causes.
Even those Contagions w^{ch} act universally

w Fin

with

an

10
C.

to b

Lond

Bra

centur

Hato

This

but

lego

there

two w

on

¶ Fevers may in some Cases require
existing Causes especially when they
are not sufficiently concentrated.

3rd Contagions are still further rendered
by the Bodies being in certain
Conditions capable of resisting their
Operation. These Conditions occur in
certain Ages - Sexes & Temperaments. ²
History of Epidemics is full of proof of
this fact. The yellow Fever affects none
but Foreigners. The negroes dwelling
says are never subject to it. They must
therefore have something in their Constitu-
tions w^{ch} resists the Operation of Contagion.
some Persons too are more disposed

to p

tins

an b

Cina

lon

tin

sp

to ren

2 upo

fitt

one

Lubj

may

& fa

the

sp

to particular Diseases than Others.

Hence the Inhabitants of ^{the} West Indies
are often struck wth the Diseases of their
Climate even here in Britain.

How does the Body resist the Opera-
tion of Contagion? It may depend
upon a vigour of System wth Qualities
to resist all the Causes of Debility.
Upon a certain State of the Fluids fit-
ted for certain Excretions.

One Reason why Foreigners are more
subject to ^{the} Yellow Fever than ^{the} Natives
may be owing to their Fluids not being
so far advanced towards Putrefaction as
the Fluids of those who have long been
exposed to the oppressive Heat of ^{the} Sun.

3 Ge

Fabri

weak

a few

explos

tasted

a few

from

the

giant

Pete

in this

or

affili

ment a

Feebres

100

It may depend upon^{the} power of Habit. all Impressions have therefore weakened by Repetition. If men have a certain vigour of System & escape the exciting Causes they become so habituated to the Contagion that it requires powerful Quantity of it to affect them. It is from this, that Physicians knowes are seldom affected wth contagious Diseases. may not the Reasons why People are seized wth Contagious but One in their Lives be owing to y^e Loss of Habit, or to their nervous System being more affected wth by Contagion? But to this we must add y^e Fluids are capable of forming but one.

11

ep

Verba

g on

con

onew

new

20

ovin

31

Bor

ma

All

De

It may depend upon Persons being exposed to Odors of a particular nature w^{ch} prevent the action of Confinement. we have many Facts w^{ch} tend to confirm this Conjecture. the Inflammation w^{ch} prevailed so universally in the year 1734 never affected the People confined in the Goals of Dm^r, w^{ch} I believe was owing to their being surrounded w^{ch} Boxes of a peculiar nature.

Let us now speak of other causes of Fevers viz Fear & Cold Fear - This act powerfully in inducing Debility. It sometimes produces Fever

J
Co

and

m?

or

Ph

mu

ver

co

fr

Fo

J
Ca

a

o

Febres

102

of a permanent nature.

Cold. you all know \mathcal{E} modus Operandi of this Cause. I shall only inquire whether Cold is a frequent or only cause of Fever? From the Phenomena of cold Bathing it appears probable. But its Effects here are very transitory unless \mathcal{E} man surprise concern w: it. I believe it seldom produces a permanent Fever alone.

For \mathcal{E} in most cases where we are sure of its Operation we see nothing but Catarrh & Rheumatism & never a proper Fever. Even in those cases where \mathcal{E} Cold is suspected of acting

also

and

After

to c

up

from

the

to c

very

the

for

the

are

a d

ex

alone. Other Causes may have cooperated
such as Miasmat Contagion for we
often see Contagious adhere very long
to certain Bodies, & yet exite no Effects
upon the Persons who has carried
them about w^m them, unless they have
been transferred to Other Persons or
to Other Countries. Contagious are
very tenacious in ^c same Manner as
Odors w^m we know continue on Bodies
for a 100 Years. now as this is ^c Case
the Effluvia of animal Bodies may be
accumulated in the Fleaths in such
a Degree as to act at Once when the
exciting Causes we spoke off occur

mon

four
at a

one a

a De
the
W:

lau
De

pro

ation

an

of
by

the
co

more especially Cold. But further all
countries have Marshy & halations
at all seasons of the Year w^{ch} may pro-
duce an Impregnation of the Air to such
Degree as to produce ~~Fever~~ Fever
w^{ch} we attributed to exciting
Causes alone. I conclude then that
Cold never or very seldom
produce Fever alone without some ex-
citing Cause joined wth them.

Are there no other Remote Causes
of Fever? - If ~~they~~ are they act only
by inducing Debility. They are never
strong ^{enough} to excite Fever w^{thout} the
Concurrence of Cold or Other Causes.

Bu

of a

big

the

is a

the

: two

Lyp:

Can

Car

bin

B

dis

to

But there are other remote causes
of Fever ^{which} deserve to be considered
viz: the various Affections of
the Stomach. the whole System
is affected by the different states of
this viscous. It has a powerful Connec-
tion w: the Extremities of the Arterial
System where we know ^e of proximate
cause of Fever is seated. we see in many
~~cases~~ cases a certain state of ^e Stomach
bring on Spasm & Pyrexia from Congestion.
But it never brings on the phlogistic
Diathesis, but rather Debility. hence
we see it most generally brings on

In

diff

upon

our

Can

& he

but

or to

- his

This

Na

Intermittent Fever - This is a very difficult Question & is done Blasphemy upon our Doctrine of Pneumia. I consider it however as a Remote cause of Fever. Crapulæ Indigestions & particular Foods all bring on Fever but whether they all act in the way or have something peculiar in their Operation I cannot pretend to determine. —

Briefe of Fevers according to their State

Let us now speak a little concerning the different Species of Fevers, & this we shall do by treating of the Nature of Epidemicks. —

Pr

in

Pr

Lov

g P

nd h

J

nd

Them

O

as a

be

que

pr

Epidemics depend upon some material in Diet or the Air applied to a great number of People at Once. Thus the Survey depends upon Diet, &c: is a kind of Epidemic but must not be considered here as it does not belong to Fevers.

I shall likewise exclude all Fevers produced by Diet, as they are properly all of them Symptomatical.

I shall speak only of Epidemics arising from the Air. They may be produced either; 1^o by sensible Qualities of the Air, or 2^o by insensible Qualities of the Air. D: Wintingham

ab

lau
to

Ja

wife

four

yo

mo

had

mo

ha

de

nes

of

attribute all Epidemics to γ first cause. Dr Lydenham imputes them all to the last cause. Dr Boerhaave too I think leans to Lydenham's Opinion.

The sensible Qualities of γ Air mayifie the Epidemics arising from γ last cause. the sensible Qualities of γ Air we shall speak of as Heat & Cold Moisture & Dryness. Heat & Cold have the chief & almost only Effects. Moisture & Dryness act by modifying the Heat & Cold by determining their Influence & varying their Operation. Heat produces the Diseases of Summer & Cold γ Diseases of winter. Heat joined w: moisture

pro

red

Loc

ches

of th

tri

ses

mu

by

off

a h

of a

so n

on

it

produces putrid Diseases. Moisture jo-
ined w: Cold increases its Effects by the
Evaporation induced as Chemistry tes-
tifies us. Cold by increasing the Tension
of the Solid, gives Occasion to ^e Phleg-
matic Diathesis, & hence Inflamm^t: Dis-
eases are generally produced by Cold, &
prevail in the winter & spring. Heat
by relaxing the arterial System takes
off the Inflamm^t: Diathesis, & removes
a putrid Tendrancy altho' it may not
of itself be able to produce a putrid Fever
^w without the Concourse of Miasma or
Contagion. By increasing Perspiration
it makes ^e Humors resid w: may

dis

or

the

the
to a

Re

the

-ge

P

on a

the

4
7 (an

we

it is

dispose them to putrid Excretions,
or to be affected by their own Miasma.

From warmth applied long^y to body
the Bile is apt to become acrid, &
to overflow in the Intestines, hence the
Reason why Choleras are so frequent in
the Dog-days. Is it^e Bile itself chan-
ged or is its Acrimony occasioned by
Respiration being affused to it? I
can not here determine this Question.

This Afflux of Bile into^e Intestines
should not always to be considered as
a cause of Autumnal Diseases; from what
we said before of Intermittent Fevers
it may be considered rather as an Effect than

2
a
win
has
is
are
the
you
dis
I p
An
for
to
lift
- 8
of

a Cause of Diseases. Heat suddenly
wining on stimulates the System &
thus brings on ^{the} Inflamm^t: Disease:
is. here the Reason why Intermitt:
are changed into continuous fevers upon
the Approach of Summer. From all this
you see the Reason why Inflamm^t:
diseases prevail in winter & spring
& putrid & bilious in ^{the} summer &
autumn. Heat favours ^{the} Rise &
propagation of Contagion. Cold tends
to destroy it. & renders our Islands
by apt to furnish ^{the} Contagion - for
a further Acc^t. of the sensible Qualities
of the air I would recommend to you

Gr
d
and
from
his

J
Gra
the
we

an
dis
to

are

In Wintingham's Epidemics but be
useful to avoid embracing such notions
from him as will lead you to reject the
Existence of Miamatain producing Epidemic

I go on to speak of insensible
Qualities of the Air or of Miamatain.
These are more important than those
we have been speaking off. & affect
a much greater part of mankind.

Diseases depending on Miamatain are
universally Contagious notwithstanding all
Disputes that have been maintained
to the contrary.

There are certain Specific Contagions ^{which}
are endemic in some places of the world

pa

les

The

Na

Oto

Th

it

Ma

- ca

peo

- G

The

from whence they may be propagated;
But we are uncertain of their true
nature & origin. The small pox meas-
les & a few others ^{are} of this nature.
They are of a stimulating & sedative
nature, & are disposed to unite th w:
Other Contagions. The Pestilence is a
peculiar Contagion. This I know from
its being always endemic in some
places. It has never reached Amen-
ca nor the East Indies. It is always
peculiar to the Turkish Dominions.
It is not produced by the Customs of
the ~~or~~ East Turks, as some have sup:

posed

it 2

are

in 1

: a le

e
y P

the

pion

ho

Gz

Fyn

the

of

used for in many parts of Turkey
it never has been known. there
are many Diseases ⁱⁿ w: resemble the Plague
in having bubos. - An Army & Roban:
ales from w: we may suppose that
the Plague is only a diversified species of
the putrid Diseases.

There are few Other Bubonic Conta:
gions except these. The Yellow Fever
however I imagine is another species.
It is certainly a contagious Disease & its
symptoms are ~~to~~ widely different from
the Bubonic. all the Other varieties
of Epidemics are to be reduced to two.

Sp
by
to
de
air

Up
Ma
the
m
Bo
tin
.ted
Bla
W

Species only. such as are propagated by Contagion evident to our Investigation & taste or from Somes. or 2nd. such as depend on ^certain Qualities of the Air.

~~and~~ we shall first treat of those Epidemicks w^{ch} arise from human & marshy Effluvia. I would restrict the Effluvia w^{ch} produce Diseases among Men to ² Human Species only as Brutes are never affected at ² same time w^{ch} it, nor are mankind affected w^{ch} the Epidemicks Diseases of Other Animals. we have Instances at Marseilles of Dogs licking the sores

of

me

Bod

3

nd
dip

they
nd
2:0

Fu

mo

mu

ho

ho

M

of Persons affected wth $\frac{2}{3}$ Plague wout
receiving it from them.

Both these Effluvia from human
Bodies & marshy Ground have
3 Effects upon $\frac{1}{3}$ Body ind Sedative
stimulating & $\frac{2}{3}$ Septic. by the $\frac{1}{3}$:
they act on $\frac{1}{3}$ nervous system. by the
 $\frac{2}{3}$ on the sanguiferous & by $\frac{2}{3}$ $\frac{2}{3}$ on the
Fluids. the human Miasma ^{are} ind
more directly Sedative & have the
mild power joined wth the th th makes them
produce a continual fever. the th th
powers are less evident. the Marshy
Miasma is less stimulating & hence

it

of
two

The

mo

Ma

so
on

Ma

for

the
w: 7

me 3

Low

- 7

me

- 7

it generally produces Intermitt^d.
Fever. the human Miasma gives
the various Fever w^m: in its beginning
may be inflammatory? the Marshy
Miasma is less sedative, or it proves
only by its Septic power or by
multiplying itself in the Body. the
Septic power is sometimes combined
w^m y Stimulat^d: & thus changes Inter-
mitting into continual Fevers. the Fair
Fever comes from human Miasome
- the Yellow Fever arises from Marshy
Miasma, & hence its putrid Disposition.
- the Camp Fever comes from y human
- the Marsh Fever from y Marshy Mias.

mata

it is

Dise

fan

ba

Pa

then

J
muse

diff

Sept

on

tog
by

and I acknowledge notwithstanding^{g^2}: y^2:
it is very difficult to distinguish these
Diseases from their sources. in their
fundamental Qualities they resemble
one another, & according to Dr.
Ringle may be combined toge-
ther. See p. 296 of the 4th Edition of his Work.

You will easily see from this how
much Epidemics may be varied by y^2:
different degrees of Sedative stimulation
Septic Qualities w^{ch} Miasma helps,
or by different Miasma being combined
together. Miasma are further varied
by the sensible Qualities of the Air, or

by

Me

Ob

The

Note

but

lead

reg

mor

J

in

repre

or t

ture

the

the

by the peculiar Constitutions of
Men. Some favouring the Sedative
Others the Stimulating & Others again
the Septic power of Miasmatæ. These
Notions may appear theoretical,
but they are founded on Facts, & will
lead us to arrange Diseases in a
regular nosology as we shall see
more fully in the Cure of these Diseases.

I would not however push these prin-
ciples wth too much Rigour. There are one
or two Contagious wth are of a Specific na-
ture & are not reducible to any of these
heads. the 1st is the catarrhal Contagion.
it is disposed to associate wth of those

Flu

now

int

brane

Cat

sem

Freq

ma

self

sha

pla

tapi

line

des

&

Fluids &c furnish the means of the
Bronchial Diseases. it generally
inflates & inflames the mucous Mem-
brane of these parts & produces Angina
Catarrh & Cough. all Europe seems
sensible of such Contagions from the
Frequency of Influenza of late among
mankind. I have seen 4 of them my-
self. Lausanne calls it Gymnocha Catar-
halis, but has overlooked many exam-
ples of it. It has at all times been con-
tagious. it occurred in $\frac{2}{3}$ 1510. & several
times in the two succeeding Centuries. & is
described by Hoffmann Wintreisingham Blasius
& some Others. there is no Disease

upper

sun

be

not

from

in

of

-

to

mu

on

mod

for

It

up

ffects so universally. the Miasma
seem to be diffund in the Air & propagate
the Disease ^{almost} without Contact, but
not so rapidly or at such a distance as
some suppose. It generally appears
in the winter Season, & has a good deal
of the Inflamm^y Dia Thro joined w^t it.
an Obstruction of Perspiration is necessary
to bring on the Disease. It sometimes
prevails th without bringing on Inflamm^y
on of mucous Glands. in these Cases it
produces miliary Effusions. in ^{the} ²
Summer it appears in this manner
It depend upon the warmth helping
up the Determinatio the Pain may

not
late

of
this
few
of
you
same

the
sus

- the

begin

now

the
the
w:
for

the
w:
for

not all miliary Inflammations be the
Catarach differently modified by $\frac{2}{3}$ Heat
of Summer? w: seems to favour of
this hypothesis as $\frac{2}{3}$ most miliary
Fever are attended w: Catarachal

Symptoms. In all Cases where a whole
Family is seized at Once w: a cold ^{the} wind
in the Air,
the Concourse of Cold & Moisture Galway,
suspect the Operation of Contagion.

There appears to be a catarachal Con-
tagion always lurking about us. It is
now a well established fact that the
Inhabitants of St. Hilda are all seized
w: a Catarach in a few days after a
Stranger lands among them. -

Sp

tui

Dya

alw.

but

12000

or

to

in

Mr

of

the

w

for

There is another specific Contagion
in General to be spoken off viz: the
Dysenteric Contagion. I believe it
always arises from Marshy Fluvia
but may require a certain Concur-
rence of a particular State of Bile
or of the Muscous of the Intestines
to produce it. we have ^a most
undoubted Proof of its depending upon
Marshy Miamata from Dr. Pringle &
Dr. Cleghorn. It generally coincides
w: the tertian Fever, or occurs at ^a same
Season w: it. of these have a striking
Symbole in Cleghorn's Treatise of the
Diseases of Minorca. from this

Ja

Dis

Or

- w

int

Ma

dry

in g

This

ring

then

in a

no

for

di

I am induced to believe that both Diseases depend upon one common & original or upon the same Miasmata we find they resembled & were changed into each other, & were in a like manner both cured by ^{the} Bark.

Brisson has some Observations in § 3. Ch. 6 part 3. w^t tend to confirm his Opinion, altho' he seems unwilling to draw the same Conclusion from them. a late Professor at Gottingen in a Treatise de Morbo Malaria w^t is nothing but a Dysentery has likewise fully proved ^{that} the tertian & dysentery depend upon ^{the} same Marsh Miasmata.

In

is

our

time

be

what

na

only

as in

when

begin

all

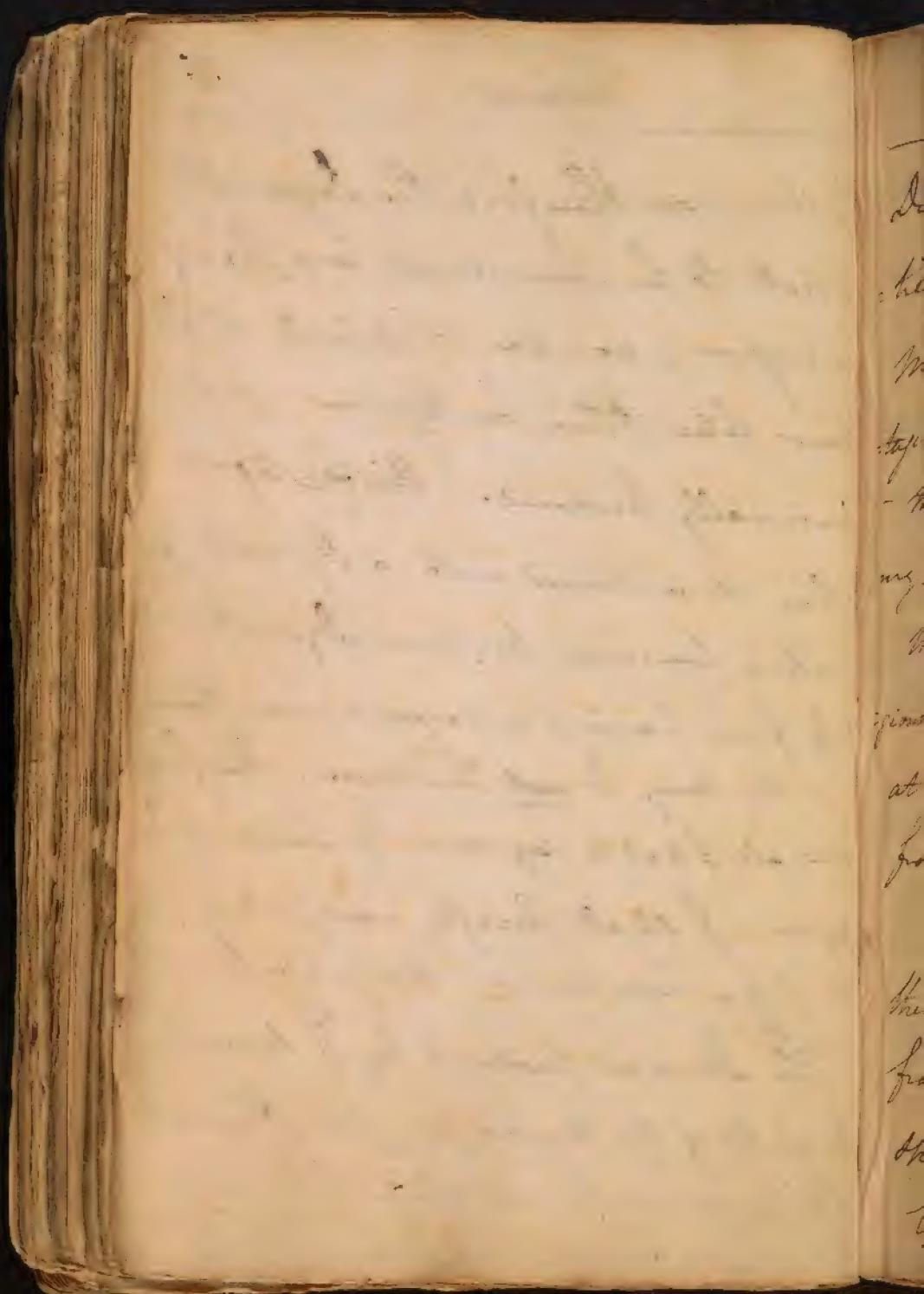
the

you

be

In this view therefore the Dysentery
is not to be considered as a specific
Contagion, nor does it subsist at all
times like other Contagions, but is
annually produced. This Contagion
when it is turned into a Dysentery
nature however produces Dysentries
only from having undergone some Chang-
es in the body, & not Inflammations. This fini-
shes all I had to say upon Epidemic Con-
tagion. I shall briefly recapitulate
all ^{that} has been said on this subject.

The Diseases produced by ^{the} sensible
Qualities of the Air are very few. Pleurisies
Pneumonies &c are almost ^{of} them only



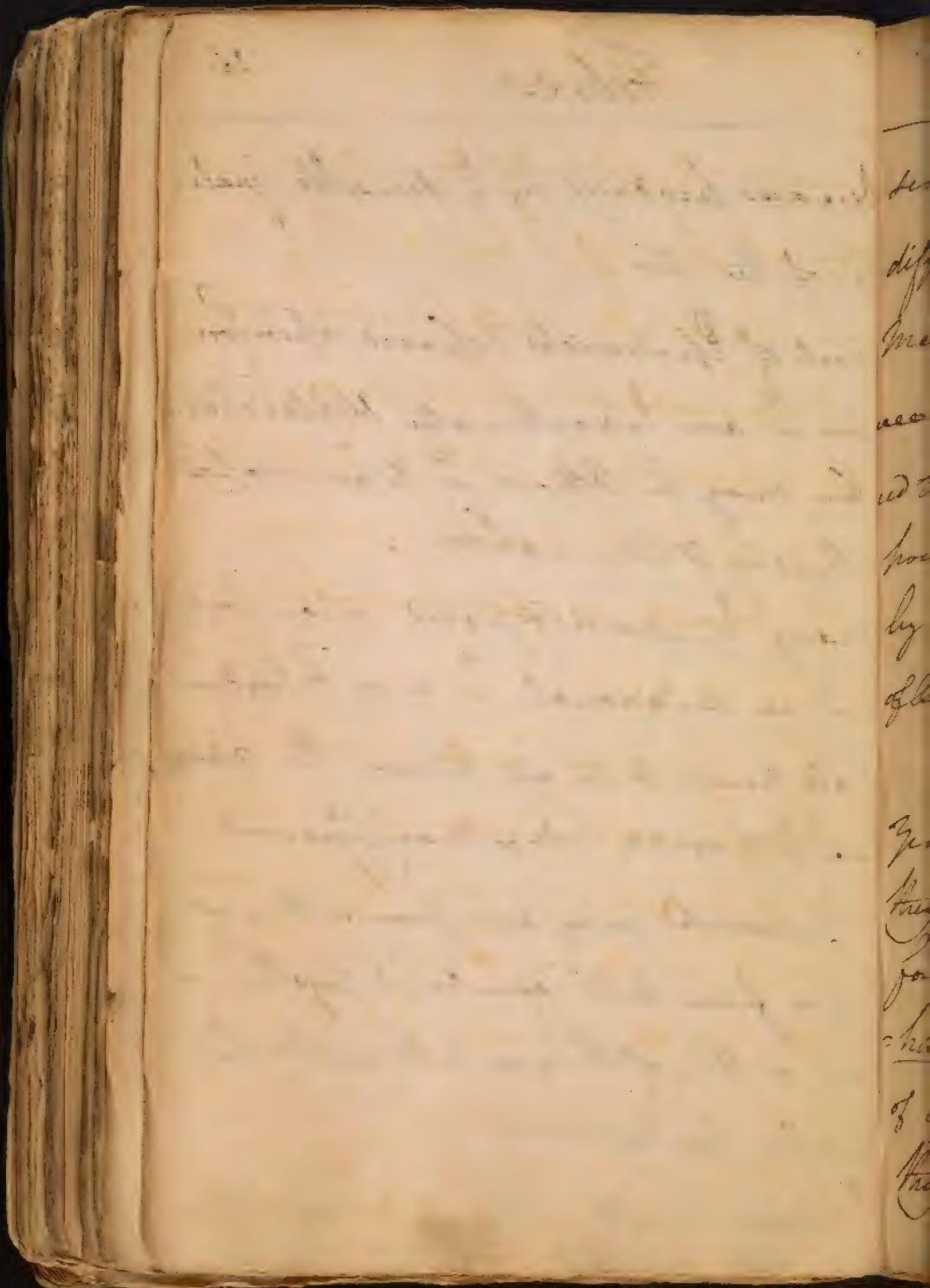
Diseases produced by γ sensible Qualities of the Air.

Most of Epidemics depend upon Contagions w: are Exanthematic & Catarrhal.
There may be Others w: have escaped my Reading & Observation.

Many Epidemics depend upon Contagions w: are Occasional, w: may be produced at all times & in all places. They arise from γ human Body & Marshy Ground.

Epidemics may arise from either of these, or from both combined together, or from either of them or both uniting w: Specific Contagions.

Epidemics will be varied by the

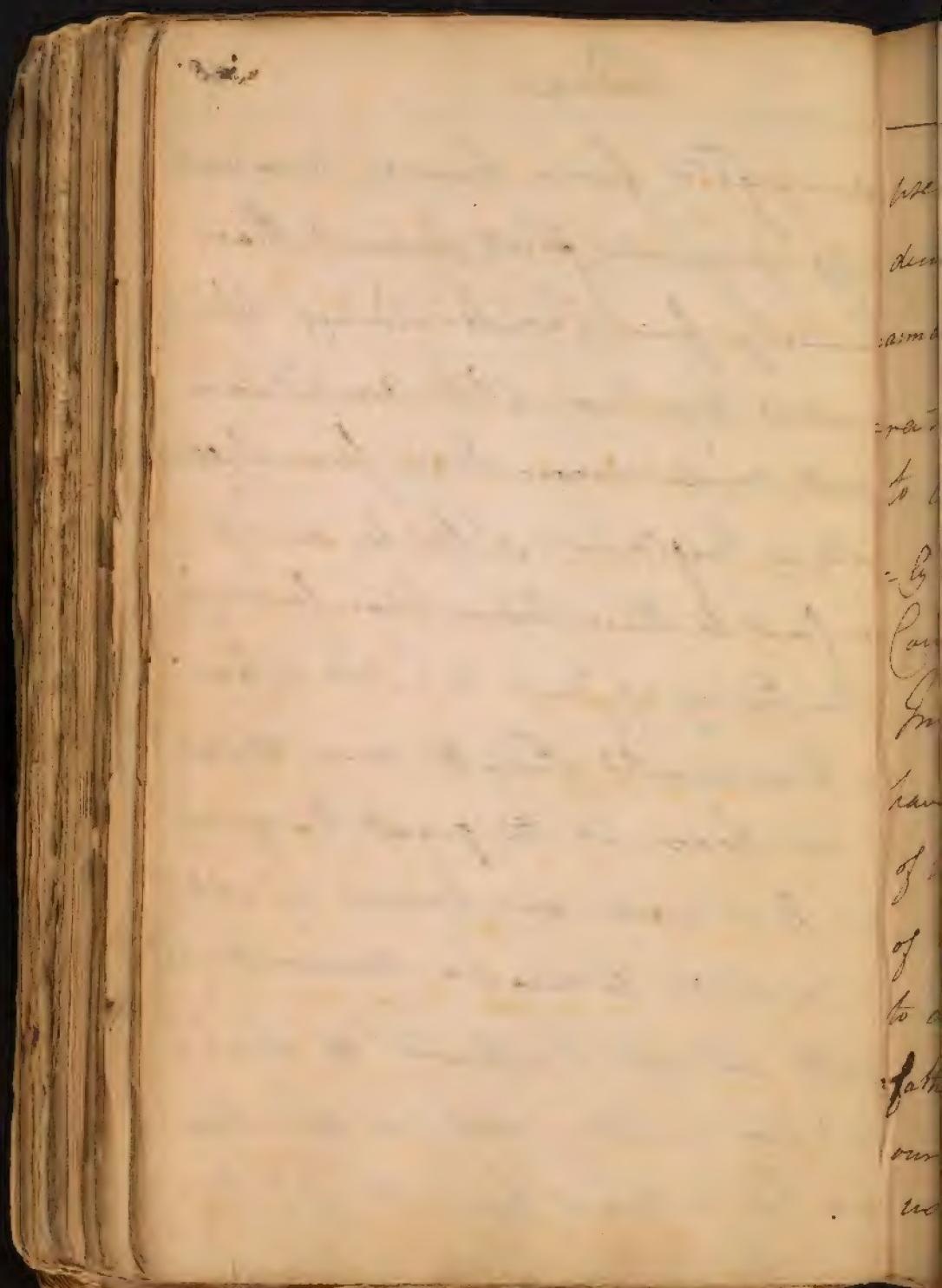


sensible Qualities of the Air & by the different States of Constitutions of men. all the modifications of
of Miasma & Contagion may be reduced to creative-stimulating & Septic powers, & all Epidemics will be varied by the greater or less predominance of one of these.

There is a curious Problem started of late years concerning Epidemics. i.e that they were much more frequent in ~~more~~ former Years than at present. Lydenham & Morton abound w^t Descriptions of Epidemics. Pringle wonders where they got them from. the Reasons of this

are
less
for
now
less
real
now
of
our
gen
gitar
the
other

nowing 1^o to fewer Human Miasma
being generated & at present than
formerly from People living less
crowded together. 2^o to our Cities being
kept much cleaner than formerly espe-
cially in England. 3^o People are less
confined to their Homes than formerly
the paving of Streets & use of Cam-
pions have invited People more abroad
of late years. 4^o the great Change in
our Diet makes our Bodies less apt to
generate or to receive Miasma. Ve-
getables are now purchased so cheaply
that poor as well as rich in some Me-
tropolise live on them at present. 5^o the



use of sugar has likewise tended to diminish the effects of human Malaria as well as to prevent their Generation 6: Greater Attention is paid to our Jails & Hospitals than formerly from whence we know so many Contagions take their Rise 7: the Improvements ~~of~~ in Agriculture have tended to diminish the Quantity of Marshy Ground a very fruitful source of Malaria! 8: We are less exposed to occasional Causes ~~of~~ than our Forefathers from ^{the} greater compactness of our Houses. & greater plenty of Fuel among us. Is not it of Importance to point

gut

man

Play

de

mon

left

for

Op

des

we

she

old

me

the

wa

out these things, that we may in w.
manner to proceed in shewing ^{the} 2^d
Page of Epidemic Diseases. -

Let us now consider the periodical
motions of Fevers. This a subject of
less consequence than it was formerly
from our depending less upon the
Operations of Nature. But still it
deserves to be attended to.

we shall 1st enquire into ^{the} Facts them-
selves & 2nd into ^{the} Reason of them.

all Physicians agree in ^{the} periodical
movements of fevers, more especially
the Ancients found Hippocrates down-
wards. Oclepiades was ^{the} first who

refus

sur

-gard

I
elle

mo

trou

apr

disau

triv

-

trou

tr

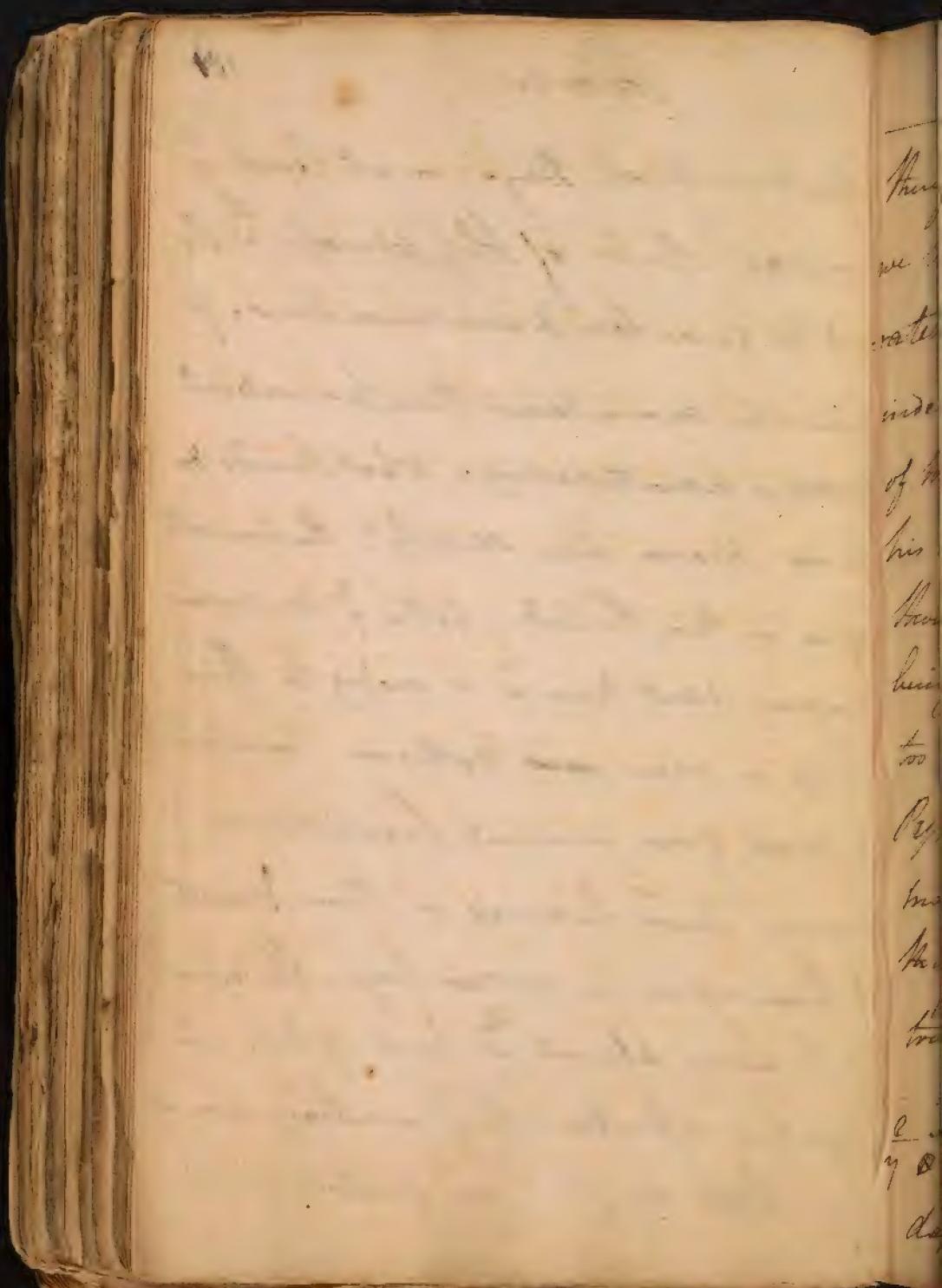
Ta

my

bri

found critical Days, or at least ^{the} general Rules of Hippocrates wth Re.
and to quarantine & Septarian Days. I
believe he maintained their periodical
motions notwithstanding. What Periods do
Cavers observe more steadily? The Ancients
agree in their Periods, altho' ^{the} moderns
disagree about them wth is owing to their
living in more ~~southern~~ Northern Countries.

most of our eminent Practitioners
however have believed in them & most
of them agree in certain Days. Histories
of Diseases abound ^{the} proofs of this. all
negative Aspirations to ^{the} contrary are of
but little weight. we shall enquire



therefore into these days. Unhappily! we have been too much led by Hippocrates in pointing them out. who is indeed often contradictory in his account of them, ⁱⁿ w: may be owing to many of his works being spurious, & many of those ⁱⁿ w: are his own having suffered by being transcribed. Hippocrates himself too is to be suspected of being biased to Pythagoras' Harmony of numbers ⁱⁿ w: may have ^{it} led him to set down some things from Theory only. He was besides too apt to form general principles.

in the 36th Aph. of B. 24. he marks out
as the upper the w w
8 - 3 - 5 - 7 - 9 - 11 - 13 - 17 - 20 as critical
days. There is but one difficulty in

adu
sayo
on
lex
the
oo
his
to
the
De
De
ap
2.
ma
bu
to

admitting these Days. i.e. y Hippocrates says that critical Days occur Only & on the odd Days. now here we see several even Days. He says too that the Critical of Fever happens on Quarters or on Septarian Days. But this arose from his Theoretical Notions. & is therefore left to be attended to. all Physician agree in the Day Hippocrates has pointed out.

Dr Kara & Dr Martin who made many Observation upon critical Days both agree in general upon these Days.

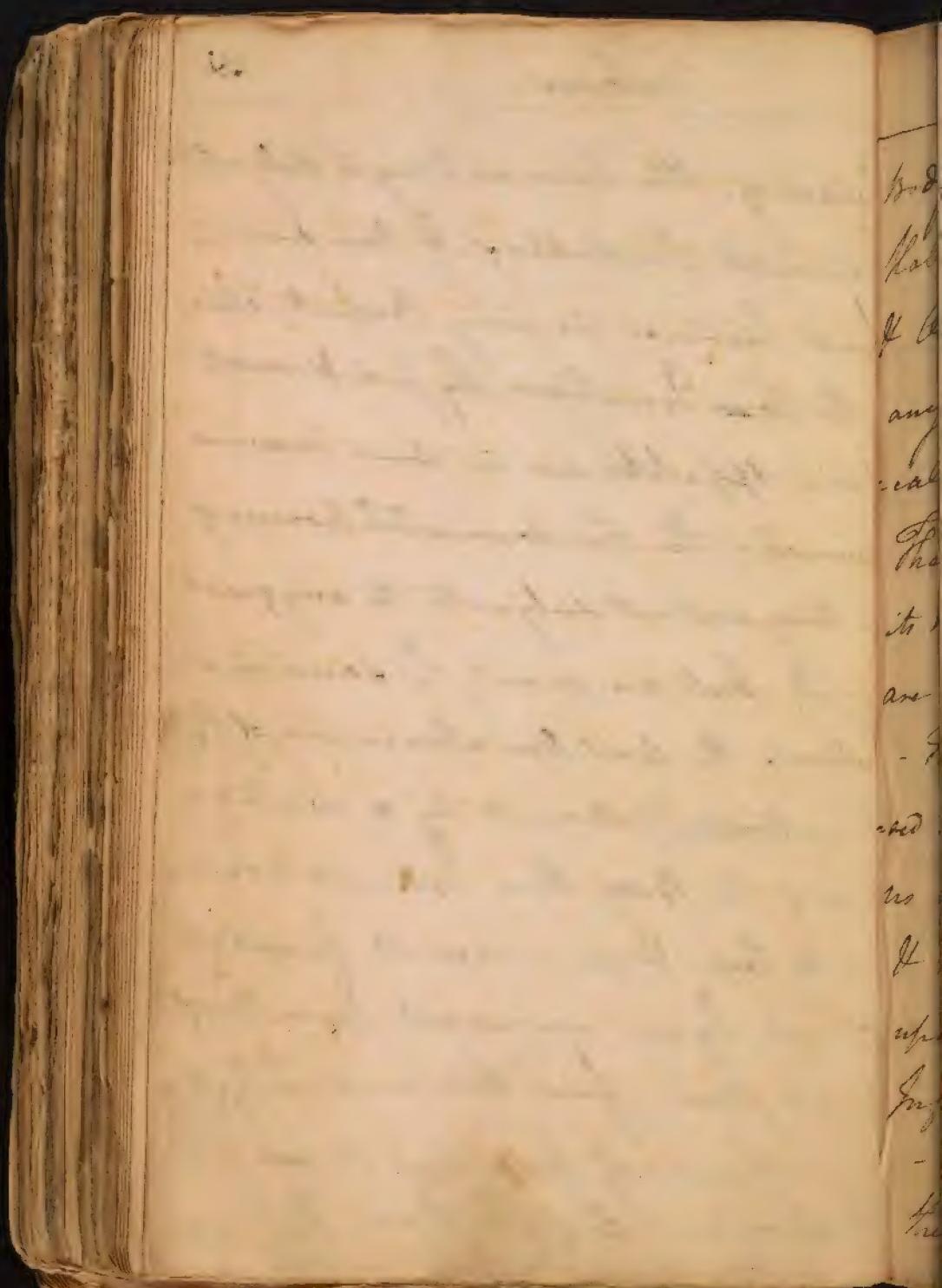
Why are the movements of Fevers in this manner? This is a most difficult Question, but we shall attempt it. They appear to be founded upon some Law of y Animal

Beon
to di
hon
the
for
dine
the
bar
Lyte
For
Ha
-ad
of
win
ha
88

Febres

134

Economy. the human Body is subject
to diurnal Revolutions, & are every 24 h
hours becomes in every Respect alike.
the ~~two~~ Functions by Food & meat
from Appetites are in some Measure
diurnal. the Fundamental powers of
the Body are not subject to any great
variety, but are nearly ~~all~~ same in all
systems. the least Deviation in any of the
functions is followed by a contrary
State of the Body. thus Exercise is suc-
cided by Rest, & an increased Quantity
of Food, by an increased Intake of
Wine & Stool. from this we see ^{the} System
has a power of preserving its own
Balance. But further, the human

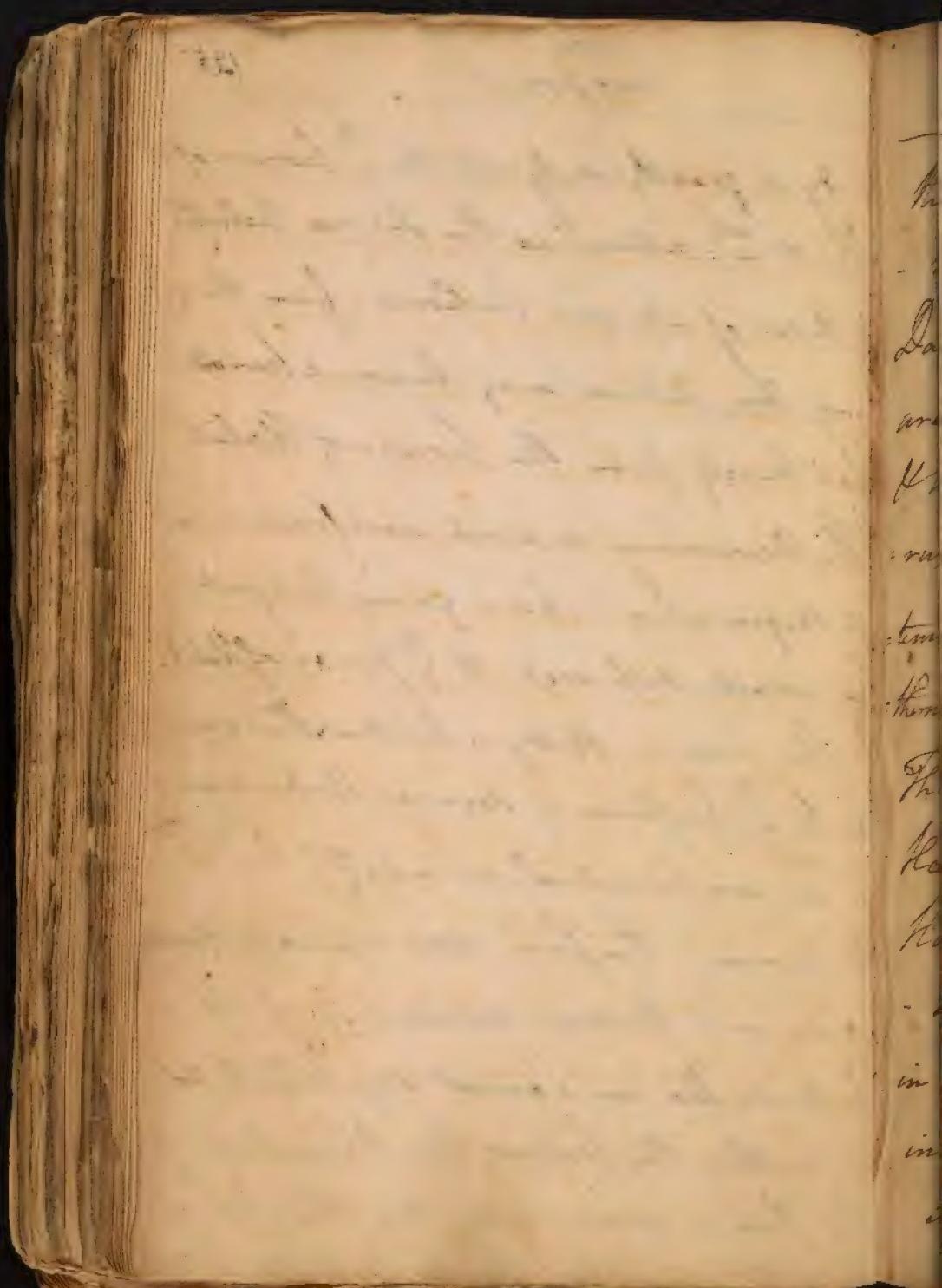


body is greatly subject to γ power of Habit ⁱⁿ determines the Degree Velocity & Order of all our Actions. from this, any one Action may become periodical merely from the power of Habit.

The Economy is most uniform in its Beginning, hence you are subject to most disposed to γ power of Habit.

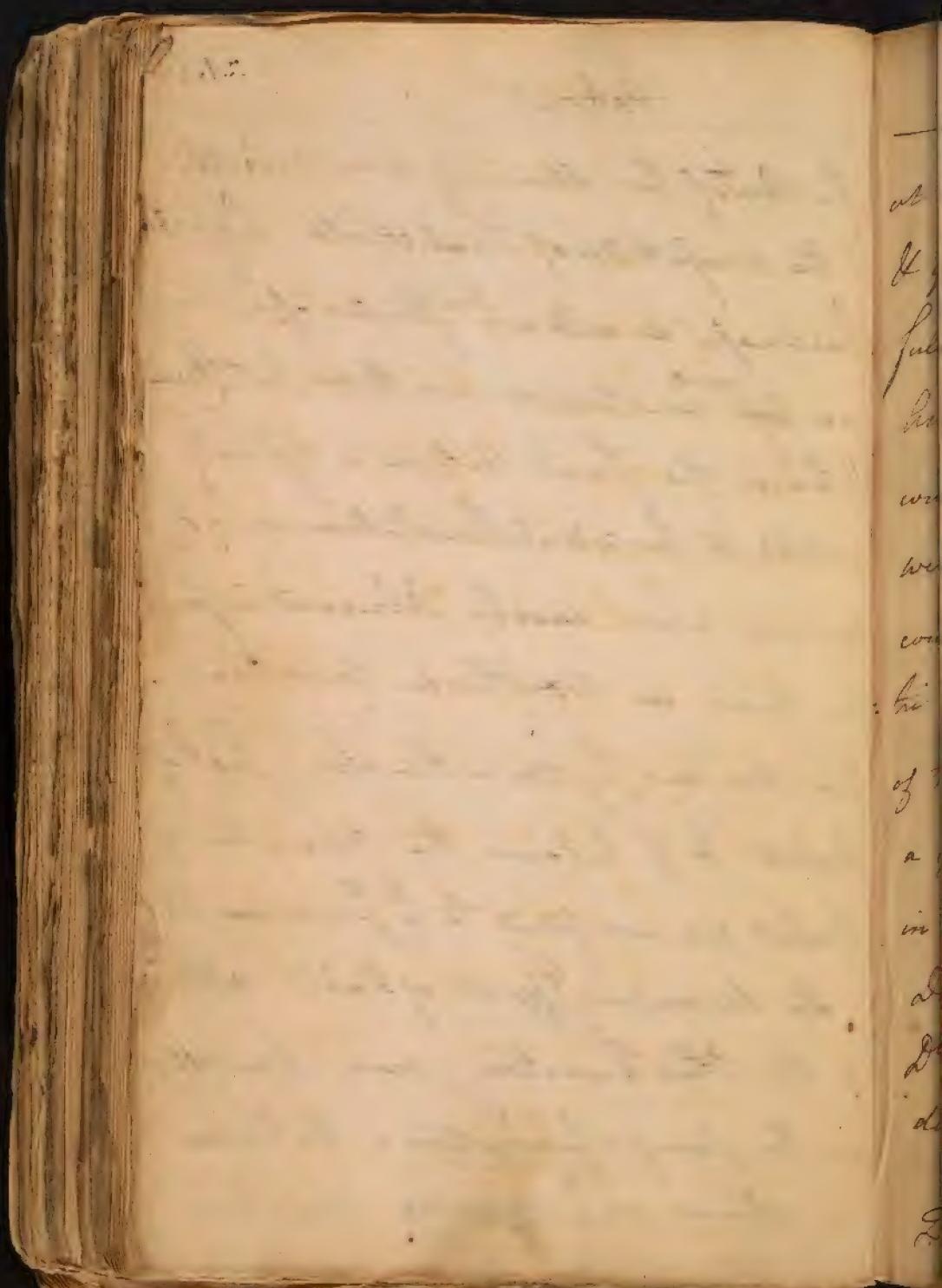
The human Body is besides this exposed to γ Influence of several Bodies around us ⁱⁿ w: are periodical, especially the Sun & moon. the Sun more especially operates upon our Bodies. we are sure of its influence tho' we cannot say how its acts.

- within the Tropics the Operation of the Sun is more evidently observed upon



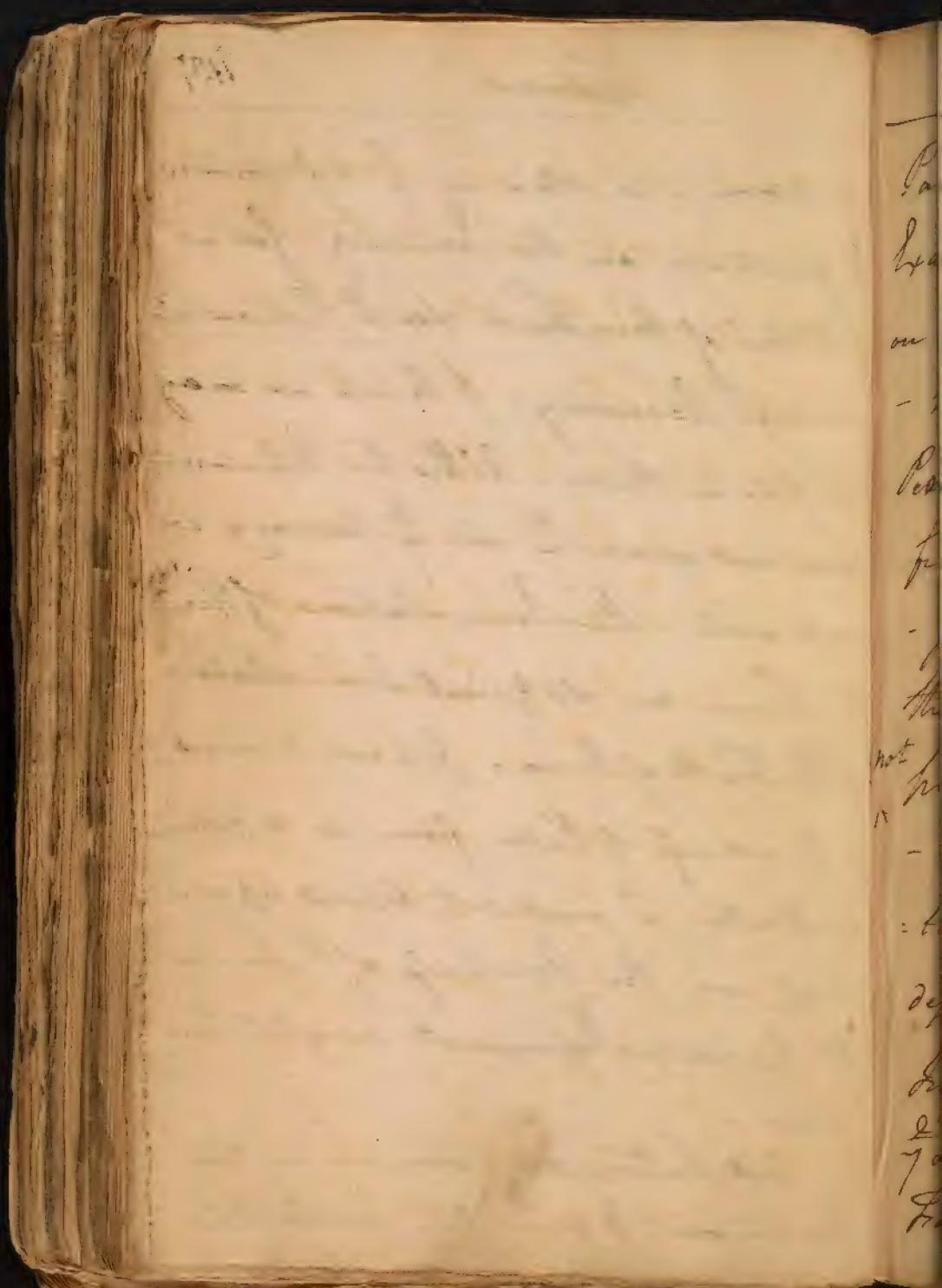
the Act of his Shining more directly.
the Iniquities of Heat & Cold - Light
Darkness - as well as $\frac{1}{2}$ States of $\frac{1}{2}$ Air
are less constant in those hot climates
where the Sun's Action is less inter-
rupted, & Periodical Revolutions in $\frac{1}{2}$ Days
are more easily observed in sou-
thern than in Northern Countries.

The Nervous System is the chief Seat of
Habit, & I believe the Operations of
Habit are confined to $\frac{1}{2}$ Sensorium also
the Secondary Effects of Habit appear
in the Other Functions, more especially
in the Sanguiferous System. the Pulse
is slower in $\frac{1}{2}$ Morning - Quicker



at noon - is slow in ^{the} afternoon
& quicker in the Evening. for a
full Acc^d of these Facts see Dr Robinson's
Animal Economy. I think we may
confide in them, Altho' his Experiments
were not made wth all ^{the} Accuracy we
could wish. the Exurbations of the
Fever are sufficient Demonstrations
of the Truth of them. I have observed
a quickening of Pulse from 10 to 20 beats
in Hectis w^{ch} could not depend upon
diseas as the quickening of Pulse in
Dr Robinson's Experiments might have
done.

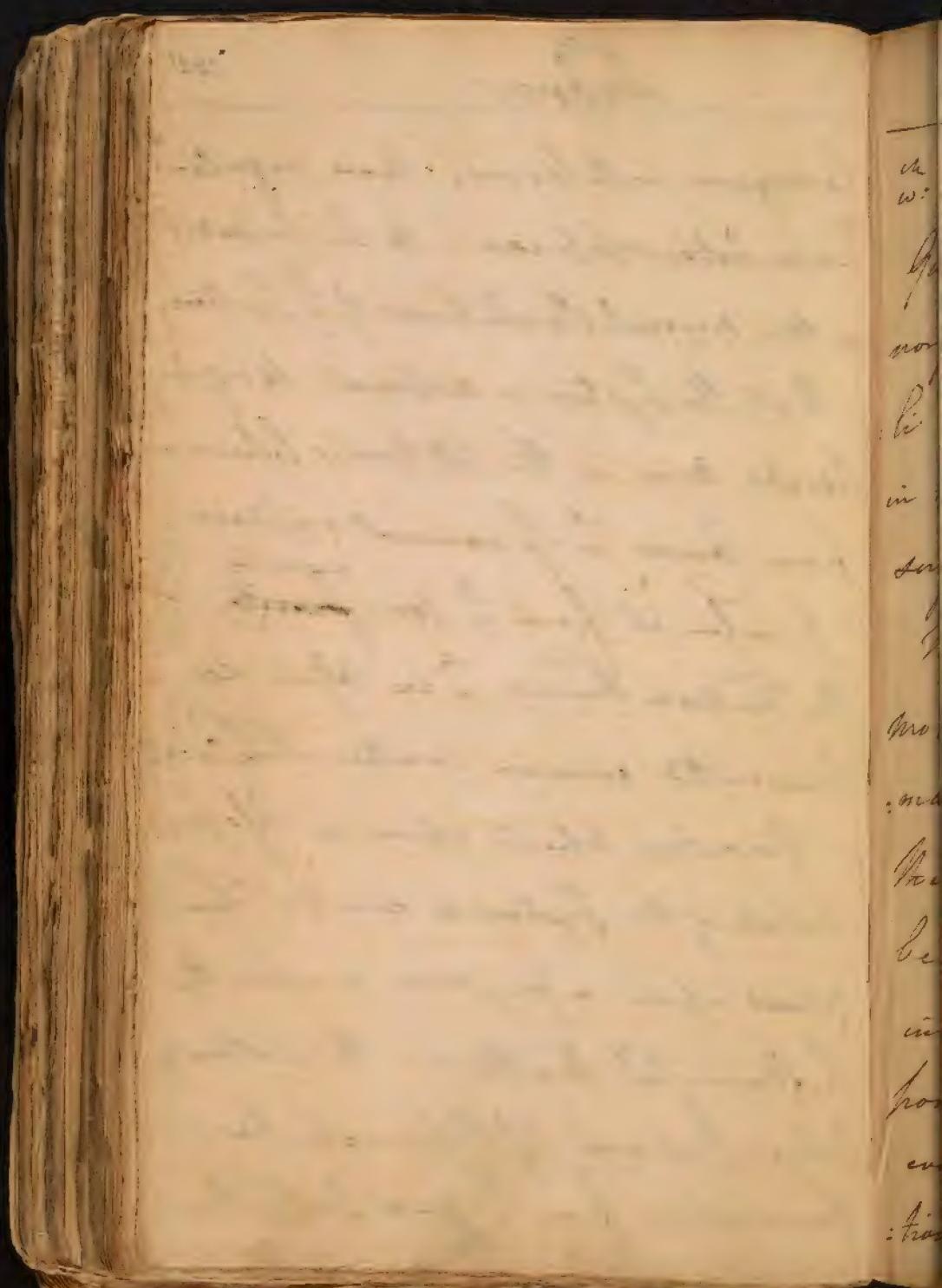
All Intermittents come on in the
Evening, & generally finish their



Pareoxism in 12 hours. Then regular exacerbations appear to be founded on the diurnal Revolutions of ^{the} System.

- But the System is disposed to regular Periods once in the 48 hours likewise from Causes w^{ch} I cannot explain.
- I infer it from ^{the} regularity of the tertian Fevers, w^{ch} we often see prevented even in continual Fevers.

- Quartans depend upon a less Irritation of the System as continu^l Fevers depend upon a greater or upon the Inflammatory Diathesis. The notion of ^{the} Dies Imperios of Hippocrates has some Foundation from ^{the} great Disposition



w: Flowers have to $\frac{2}{3}$ Festuan Type.

Quarantane never occur in $\frac{2}{3}$ Spring

nor Summer from $\frac{2}{3}$ Presence often

be from Cold & Heat. they occur only

in the Autumn when the System is

subject to less Irritation.

Nature we see then affixes periodical

Motions $\frac{w}{h}$, is evident from $\frac{2}{3}$ Phenome-

na of Intermittent Diseases. we presume

these motions are present

in continual Fever $\frac{1}{3}$

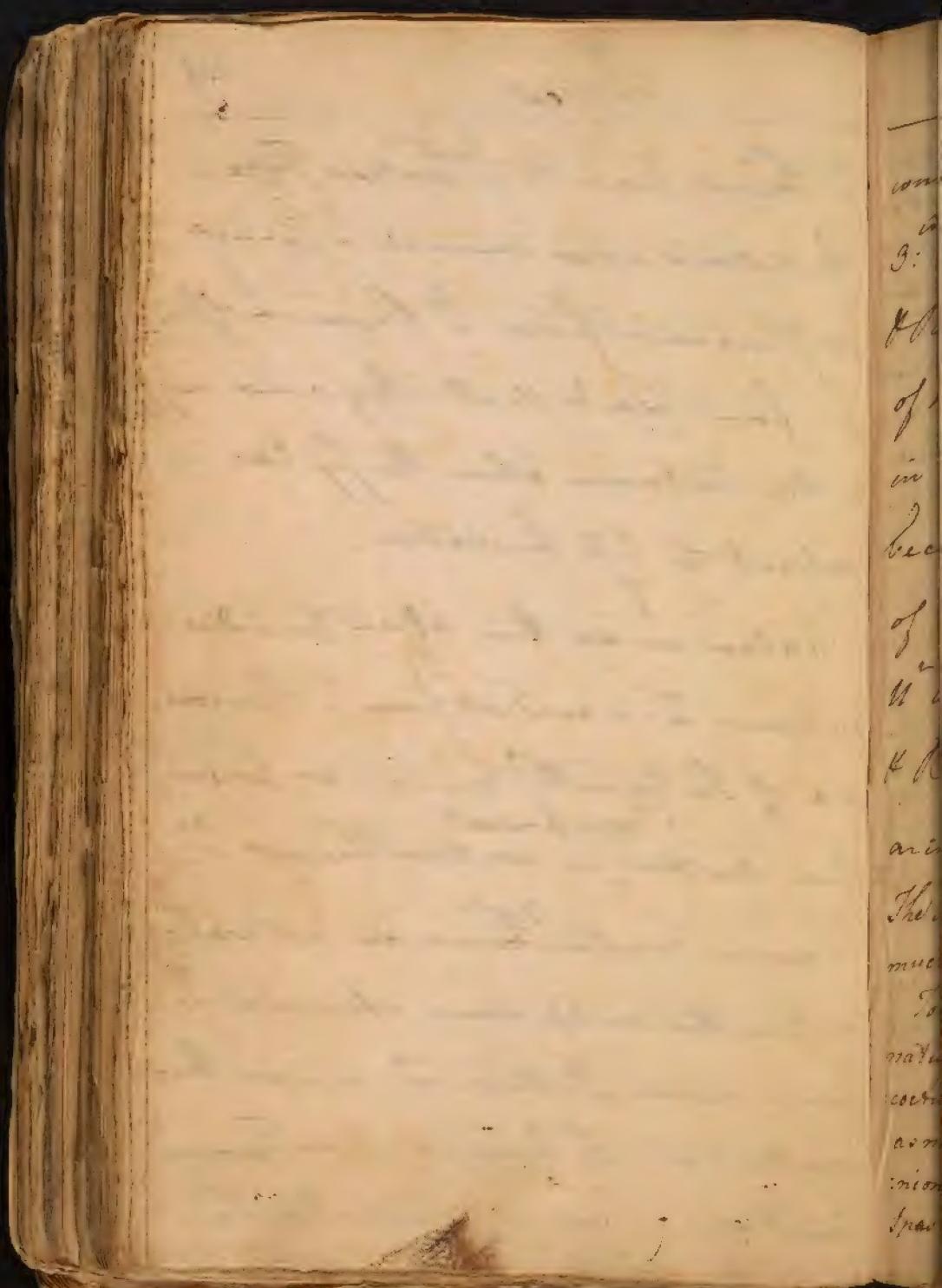
Because continual Flowers are naturally

intermittent till less some stimulating

power occur in them $\frac{w}{h}$ render them

continual. $\frac{2}{3}$ because their termina-

tions happen upon regular Days $\frac{w}{h}$.



connects w: the tertians or Quartans type.
3: they have their exacerbations &
& remissions upon the critical Days
of Hippocrates. They are tertians
in the Beginning, but as y System
becomes weak they assume the Form
of Quartans w: is generally about y
1st day. - 4: they have exacerbations
& remissions twice a day w: I believe
arises from the Influence of y Sun.

The Attention to Indications of Cure in fevers tends
much to illustrate The Method of Cure.

To come at this I began the curious Question of
natures evening fevers - I observed the Doctrine of Con-
coction & Excretion of miasms. Miasma was so exploded
as not to require a Refutation - I took notice of the Op-
inion substituted by those who suppose fevers owing to
passing the Lungs depending on removing this.

1811.

Febres

The Spasm does very generally attend Fevers & often occasions the continuance of them; yet this is not always the cause. In all Fevers there is a Condition precarious to the Spasm, which is to be consider'd as a Cause of the Disease & therefore the removal of this will give the Cure. — This Condition I have said consists in a certain Debility of the Sensorium or an Attenuation or Resistance to its Influences; by which the Power is not distributed equally to all various parts of the System. Thus in the sanguiferous System in greater Proportion than in the animal Organs being greater Proportions distributed to the Head & larger Arteries than to the Extremities. Nature then cures Fevers by removing this Interruption or resistance to the action of the Sensorium. This is favoured by the whole Phenomena of Fevers & will plainer appear hereafter in the Means employed to remove Fevers.

This is a Doctrine that will be difficultly received; for it supposes that the Debility of the System seems constantly to be going on in Fevers. Nay, the Debility is often greatest, when the Disease is gone. — The Debility I suppose the Foundation of Fevers, tho' in some measure unusual, is yet unequal; more of it in the extremities than the origin of Nerves more in animal than vital Organs & more in the Extremities of the Arteries System than in large Trunks, and have observed the Cure does not therefore depend alone on restoring the Vigor of the nervous Powers but likewise on restoring

Feb 22

112

In the equitable Distribution of it most especially to the extreme
Arteries. While the Possibility or Resistance remains,
the Spasmodic Action will necessarily be renewed, as it proves a Stimulus
to the Sensorium & to the Heart & Arteries -
and he must enquire the Means by w^t Nature removes this
acute condition.

This is partly done by a reaction of the Sensorium
or an increased Action of the Heart & Arteries. The first
cannot so well explain, but the 2^d is one of the chief
Means, of keeping up the Excitement of the Sensorium.
Having consider'd the Termination of Fevers in Health,
he must consider their Termination in Death - Adj.
will Problem or Subject solved.

Let us here consider the General Causes of Death.

Death is the entire Abolition of the Excitement of the
Nervous Power in the Sensorium - It will be useful
to explain the Term Excitement. I suppose it understood
that the vital Principle in Animals is seated in the
nervous system & more especially on the Sensorium.
All the Functions of the animal System depend on the
Nerves. - *

The Activity of the Sensorium & of the nervous Power
in general depends on a subtle elastic Fluid con-
fined to the medullary substance -

P. 7

was

all

no

Chanc

it m

Hath

sold

& Ele

system

life

Supp

Doge

It m

loured

Hath

knowe

tion

Year

send

cap

A &

here

coco

This subtle Fluid is a portion of that ether w^{ch} all
the bodies now agreed exists in common at
all Bodies, as connected wth a State of Matter it has
no separable Motion, & only such as is attended wth
Change of Matter, but in certain Circumstances
it may in certain Bodies be so collected as to have
Motion communicated thro' it, without Motion in the
solid Parts. We have an instance in Magnetism
& Electricity. This I call the excited State of the nervous
System. For this Excitement of the Sensorium does
life consist.

Supposing such an Excitement. It is in different
Degrees in different States of animal Economy.
It may be from the highest maniacal State to the
lowest Degree of waking Animals; below this is the
State of sleeping Animals, where Excitement is
weaker. That it is not sufficient for the animal Func-
tions. A lower Degree is that of Syncope. Here the
Heart & Vessels are excited in the weakest Degree
visible, but the Sensorium is so far excited as to be
capable of reacting & giving Action of Heart & Vessels.
A lower Degree is Hypnagogia. Heart & Lung
are stupified, but
here as life often returns us much, suppose so much
excitement as to be acted on by Impulses.

Then
nable
We are
in ge
v. It w
eas
2^d Pro
The 1st
is as
a Com
readig
thing
pecuni
attends
denly
any
2^d The
this
the Imp
on a
struc
rupt
Path
Death
Begun

Febres

14th

When the Excitement is below this, so as not to be capable of Excitement it is Death.

We are now to say how Death is to be brought on in general.

It will depend on Powers destroying nervous Power excited.

Powers destroying the Organs on which Excitement depends. Means of Excitement we find to be Heat, & this is necessary for its support. Cold then will have contrary Effect & Action on killing Animals will readily be allowed to be on the nervous Powers. Any thing in fluids or Organs is to be considered as consequence. If this is a doubtful Instance, it will be attended w^t Regard to Powers. Many operate so sud. denly as to give no suspicion or Proof of action in any Part but the nervous System.

The Circulation of the Blood is necessary to support this Excitement, as appears from the Effects of stopping the Impulse of the Blood to the Brain in directing of a greater Portion. It is most necessary in warm animals & particularly in Man - what then interupts the Action of the Heart, puts an End to life?

Pathologists have thought it sufficient to explain death by showing how the Heart stops - but on the beginning of life it appears that the Sensorium

is ext
further
rouin
the Pa
Other
have m
Many
ores no
has th
on the
long w
physi
secreti
pulse o
for the
have sa
system
ensorce
Caused
Caused
that de
The D

is excited previous to the Heart's Action. And we further find that by withdrawing the Energy of the serum we stop the Heart's action.

The Pathologists have constantly marked the ceasing of the Heart's Action as the Cause of Death; yet they have not determined how this operates.

Very Functions must stop with the Heart, but this does not explain the ceasing of the vital Principle.

As the Amphibia whose Existence depends less on the Impulse of the Blood, this may be interrupted long without Death.

Physicians have explained it from supposing a function in the Brain which requires the Presence & Circulation of the Blood. This may be a secretion, tho' not for the Purposes of Sense & Motion. Whether what we have said is just, it reduces it at least to a simple system that life consists in an Existence of the serum, Death in entire Abolition of this. The causes then may be direct or indirect. Direct are the causes immediately taking Existence. Indirect those that destroy Organs necessary to the Existence.

The Direct

- 1 Sedative Poisons
- 2 Violent Excitement
- 3 Certain Poisons

To to
Amia
Recd
can
Learn
adela
More
of the
mus
Gard
2^o V
that
all
Pene
bury
this
as the
All
of each
His
to the
I see h

Febres

116 8

4 Colic

5 Compression

6 destruction of the Features of the Sensorium -

to the 1st I need not say, all reflex sensations are stimulant or sedative. That is increased or diminished excitement of the Sensorium. How they operate I can not say, ^{this in fact} ~~is~~ certain.

Examples of grief destroying the System & bringing on Death -

More evident Examples in Fear. The sudden Deaths at ⁱⁿ The Hague have been referred to Fear - This we ^{will} must at least allow a very powerfull concurring cause -

7th Violent Excitement - The only explanation is that it seems to be the Nature of the Sensorium, all Exercise of its Excitement diminishes this - Hence we explain why Exercise attending Labour brings on Sleep. In ordinary Cases we can perceive this Exercise induce Sleep more or less irresistibly as the Exercise has more or less violence.

All pleasant Sensations, Emotions, &c are the State of Excitement that induce Debility often Death - It is allowed that all these tho' immediately confined to the nervous System diminish Excitement. We have often brought on Death - Concupiscence

area
in De
This sh
the tra
in Feve
of Punc
Parony
out to
the wea
Then C
Debu
to the
on Fe
3^d Pow
or say
Powers
very o
solely a
too mu
And w
refer
Now N
: que
It wo

Feb 22

1748

are a high Degree of Excitement, & always terminate in Debility or Death.

This shews then that violent Excitements may be the Cause of Death & hence the violent Excitement & Fevers may be a concurring cause of Death.

Bungle apart in his Causes of Fevers that a few Paroxysms brought down the strongest Man who was fit to stand. There are no very violent Sweats, it was the weakening Power of the Magma remarkable in these Cases.

Debility then in Fevers must be referred considerably to the Excitement in the Paroxysms & therefore this in Fevers may induce Death.

of Poisons - unnecessary to define the Terreneal, thus we say how the several Powers operate. There are Powers that evidently destroy life, tho' only received in very small Quantities. Many do this by acting solely on the nervous Power. We as evidently see this in many that they operate as sedative Powers. And when they are very suddenly fatal, we must refer it to the sedative Power in excess.

For they operate is not explained, we must only enquire if Persons concur in the Death of Fevers. It would appear the Case - Putrefaction is a

smac
Action
sourc
to the
mon
With
1000
Putre
some
We pe
time
A few
Der
fri
Ana
appo
Put
Effec
thus
one
Geo
Can
the
The
F.
pe

small Part of the System often induces Death; & the Action first appears in weakening the Power of the Sensorium. It is so quick often that we would not refer it to Fluids being unfit for Secretion, but rather to a noxious Vapour acting on the Nerves.

With regard to Measles & Contagion we have rendered it probable that they arise from Fermentations of the Putrefactive Fluid. And tho' not exactly putrid yet have somewhat of the same Virulence.

Upon viewing in general their sedative Effects, & th^t they sometimes occasion the Reaction of the Sensorium so as to give Fever; yet often in such a Degree as to bring Death suddenly. Thus at Marseilles Death came on after the first Symptoms had appear'd only two Hours. A further Analogy between Measles, Contagion & putrid Matter appears by the Matter supplying

Putrefaction in Fevers has been referred both to the Effect of Fever & to a Putrid Ferment. In the greater Number of Putrid Fevers, the Introduction of a Ferment is the most common.

I conclude then That one of the most universal Causes of Death is a peculiar Poison that destroys the Excitement of the Sensorium.

There are 4 Classes of the Operation of this Poison -

1st It may depend on the State of the Person accom-
panying the Measles & Contagion.

D
the
wo
Per
3rd
tip
as
the
pro
so
then
The
even
From
Now
the
Effec
5th
Sen
odd
The
by
K
G - a
from
of the
how

2^d When the Poison is in the Masmata or Contagion, the it is not in sufficient Quantity to give Death, yet con-
curring with a violent Excitement may kill in a few
Paroxysms.

3^d When in neither Cases it would kill, yet by being mul-
tiplied by Fermentation they increase their Quantity
so to give the Effects.

4th When neither of the three happen; but as a Ferment
produces such a Disposition of the Blood, the sedative power
overcomes the Vessels so to occasion
they become putrid & then are a sufficient Cause.

The last is the most common & universal Cause in Fevers,
examined the various Histories of the malignant & puer-
al Fevers & you will see very generally some Spacelus or
Necification.

5th Operation of Cold - I spoke of it before, and is an
Effect of nor is the --

5th Compression. I need not say that Compression of the
ensorium not only occasions Action but may give
sudden Death. but it is seldom the Natural Effect of Fever.
The Appearance of Aproplexy & occur frequent-
ly, but we shall endeavour to shew

rather than Compression of the Sensorium.

6th Destruction of the Texture of the Sensorium. This
from the increased Impetuosity in Fevers & Delirium
of the Brain has been frequently supposed. We do not
however know the Operation or Signs of it. I would doubt

Com

:014

it

and

Bo

for

they

at

the

com

Ag

and

The

per

of

in

The

& Co

cal

I do

The

of t

The

The

wor

mig

of its taking place,

& I would not allow it a common cause. Considerable topical Affections of the Brain often subsist long at Life - in small Lesions that give Death. It is to be attributed perhaps rather to violent excitement & irritation, than the destruction of texture. Boerhaave thus explains Death in Fevers & Van Swieten endeavours to support it by reasoning - but they are both ~~very~~ ^{both} wrong. It is a Supposition of extreme Vessels being greater in Proportion than the Trunks which is directly contradicted by Dr Wintlinghams Experiments. Again he supposes a denser of the Fluids ^{is} by increased Impulse clogs up the Vessels, yet he in other Places refers them rather to an Affection of Secretum faciens.

These do not causes them, two only seem to operate in Fevers viz Violent Excitements & Poisons.

The last may operate by being alone, or with miasma & Contagion or by Putrefaction in consequence of topical Effusion.

I did not think it necessary to speak of Warts & verriles.

The other Causes are such as tend to an entire Abolition of Excitement. They are direct or indirect.

The Direct may be referred to 6 Heads. As to the last the destruction of the texture of the Brain, Dr Simpson would not allow it as he endeavours to shew that animals might live without Brain; but he pushes it too far.

The
to Po
The
Tele
The m
and
are
of the
Tele
and
Confe
all
Color
for
any
Star
Each
part
or in
The
Am
econ
give
The
a ple
This
Death

The Causes taking place Fevers perhaps may be reduced to Poisons or violent Excitements.

The Direct act on the Organs necessary for Circulation - The Causes interrupting it are more remote or direct. The more remote are stopping the Supply of Chyle; hence cutting the Thoracic Duct is certainly fatal. More direct & evasions excessive, more immediate still are Erosions of the Heart, next obstruction to the Heart as Polypus. The Causes interrupting Passage thro' the Lungs are numerous - Those connected with Fever, only are perhaps Inflammations of the Lungs by the consequent Effusion. All these act only by preventing the Impetus of the Blood & therefore take off Excitement.

In Fevers a Stimulant, sedative & septic Power occurs - any one in excess may give Death.

Stimulant Power gives greater Spasm & increases the Excitement. The Stimulants besides may occasion particular Effusions & thereby in the Lungs suffocate or in other Parts give rise to a putrid Poison.

The Sedative concurring w^t other causes may kill or it may be sufficient alone or may be rendered sufficient by multiplication or by occasioning Effusion give Rise to Putrefaction.

The septic Ferment may act as sedative & by inducing a putrid State may give a more fatal Poison.

The Connection of - - The Causes inducing Death in Fevers & the Causes originally supposed to take

place
Infla
Press
the
Book
to be
shall
the
the P.
use
by m
be no
Degr
last
first
taken
above
recon

Freq
Hard
soft
green
Pale
Blue
28.

place in Fevers appears too on the Principle genera of Inflammatory nervous & putrid.

There is a Foundation for Prognosticks; let us find if the Symptoms importting Danger are conceivable by a Doctrine of Causes. I shall enumerate the Symptoms so belonging to Stimulant, sedative & septic Powers. We shall see how the Experience of Ages agrees w^t our Causes. The Prevalence of stimulant Power & its chief Effect the Phlegmiston, Diathesis & a Consequence of this Spasm is manifested by the State of the Pulse & of the Heat of the Body. by the State of the Pulse as more frequent. This it may be said is often from Weakness; but when with any Degree of Hardness or Fullness it is a Mark of Stimulus & Irritation.

Besides Frequency & Celerity of each Stroke may be taken in as a Sign of Stimulus. In most Pulses not above 100 I can observe the Celerity of each Pulse accompanying the Frequency of their Repetition.

that cannot be perceived.

Frequent Pulse from Irritation is inferred from Hardness. This becomes ambiguous often from Indep: but this will arise from the Tension & therefore exceptiong in very violent Contagion, a small Pulse is often a Mark of Irritation - Hence after Bleeding often makes it fuller & softer.

2 Heat has been reckoned a Mark of Putrefaction,

but or
heat o
now to
The mo
which
of the
serve
of the
Victor
a dor
and w
mucos
bring a
P Her
Lorin
This
Dyne
Body
B Sea
Wf the
Skin.
with
The v
that
Power
Debt

prick

but only as the putrid is connected w^t a Stimulant - Heat coincides surprisingly with the State of Sanguiferous System & therefore Heat shows ^{the} presence of Stimulus. The more subtle Distinction of a later

I am

not certain of - The Heat is expressed first on the State of the Tongue as more or less covered with Thrush. To prepare the Tongue fit for Taste, there is a more exhalation of Fluid & leaves on Evaporation a thicker Part. In Lectures & Children the Fluids are so thin as not to give sediment but this always happens more or less in Adults and when the Heat of Fevers exhales more than is over mucous sediment it goes so far as to give a dry Breast. Why it changes Colour we cannot explain.

& Heat is expressed by this ^t from the Mouth & Fauces burning very dry - But Heat is not the only cause of this. Thus I passim in a cold St. Putrid Matter in the Stomach. Dryness & Heat too are connected on the Surface of the Body

3 Scantly high coloured urine. This is a sign of Heat & of the Determination at least of Respiration to the Liver. perhaps the Heat occasions the Blood to part with more of the colouring Parts of Liver.

The Absence of Remission - I have endeavoured to show that the Protraction of Paroxysms depend on Stimulant Powers. But this Stimulus may be combined with Debility or Septic, & when these act we shall find the

sympathetic
The Eng
bedam
attitud
only b
mena
tation
the Pen
energy
onatic
ending
mater

As to b
— on T
must
piece

miria
theria
The De
of the Z
berri
6 —
Violen

Symptoms of the Stimulus proportionally depend.
The Inflammatory Fever from violent Exercise may
be dangerous, yet it is the safest Fever when not
attended wth topical affection. The Inflammatory State
only becomes dangerous perhaps when there is Detec-
mination to the internal Parts. I cannot help illus-
trating this by the Safety of the Rheumatism where
the Determination is to the external Parts. A Practit-
or of 40 Years said he never saw Death from the rheu-
matic Fever. In 30 Years I never saw it, except when
ending in a Topical Determination. These determina-
tions I refer to 3 Heads.

1 Determination to the Brain

2 — — — to the Lungs

3 — — — to the Abdominal Viscera.

As to the 1st it arises from Thicks of Circulation.
— in the increased Action of the Heart & Arteries—
must without topical Causes necessarily take
place to the Head; & is found in the

Sweating in Consequence of this Det-
ermination appears first on the Face, & perhaps Exan-
themata.

The Determination is discovered by an unusual Pulse
(of the temporal artery, a Tinglingness of the Face, protru-
berant & inflamed Eyes — increased Sensibility of sight
& — Violence of Head ake. Constant watching,
Violence of Delirium.

These
names
being
by some
without
any of
the too
sharpen
gesture
frustrat
g. D.
Linen
earlier
as the
But
Perio

The co
topic
I ha
are in
Respo
to the
Offic
Visca
It was
bough
lymp
by a 5

These are not ambiguous w^t regard to Cause, except Delirium. This is to be distinguished by the Mode of Delirium, being its being attended w^t greater Rapidity of Thought, by Impetuosity of Motion & Person. Where these concur w^t other symptoms, I take it as a mark of increased Impetuosity of the Blood to the Head.

The congestion is generally the cause of Inflammatory Spasms, yet the Impetus increased may give the congestion - hence Rheinitis may arise. Therefore an irritation fixed to the most tender Part.

2. Determination to the Lungs. - From their Nature & Function every increased Velocity of the Blood must easily be felt there as as much as in the whole System.

But then they are exposed to the Air, from both which Peripneumony is the most common Inflammation.

The increased Velocity in the lungs gives difficult respiration. The intercostal Muscles are taken in often & shows it more laborious. But often too all the Muscles are employed that can move the Ribs. A difficult Respiration then will express a particular determination to the lungs. - The same is expressed by the Decubitus difficilis. This this may arise from Affections of the other viscera yet in general it happens from Throes.

It will be more fully expressed by Pain of the Thorax, Cough & more certainty of which is attended w^t catarrhal symptoms. The strongest degree of Inspiration is expressed by a Turgescence of countenance of a more bloated kind

Appar
d'ordre
yours
as the
nation
affection
Grenier
informed
State of
provid
qnsfle
monet
contine
jects
Inflam
genera
Debtors
ly of
The Co
bined a
to our
Amen
that we
The Pe
causes
of the
watche
d. On t

Appearance Thunden Determinations to The Brain -
The Determination to other external Parts, the notable,
yet as giving Irritation from Congestion, & especially
as these Viscera are liable to Effusions, & from Suppu-
ration or Putrefaction may bring on Death, hence Topical
Affections of the abdomen are dangerous.

Often Detected only by Distortions but in general are to be
inferred & from Vomiting. This may arise from a certain
State of the Sensorium or Surface, but when it is to be sup-
posed by saline Draughts or Spasms, it is a Symptom
of inflamed Viscera - more certainly of a Thunful In-
fection of the Abdomen, as happens in Intermittents or
continued from this. As such Fevers were chiefly Ob-
jects of the Antients Practice, so they speak most of
Inflammations of the Liver, Spleen &c. Tension there in
general & Inflammation may be masked of topical
Determination to the abdominal Viscera more certain.
ly of these is Topical Pain -

The Effects of Stimulus becomes more dangerous as com-
bined w^t Induration or Septic Powers, as it not only adds
to own effects, but as it aggravates the Effect of Cause
by increasing the Tenacity of Phasm & giving the Effusion
that may be Dangerous -

The Prevalence of Sedative Power may depend on various
causes.

1^o As the Person is weak from Evacuation, Disease, grief
watching &c.

2^o on the Powers of the Phasm & Contagion

P. to w.
Present
Cause,
H. C. O.
of Tax
from
Nabig
gth 5th
S. S. S.
Tunet.

Thurym
In and
appear
precede
On the
strength
At first
She did
suppo
he carri
and s
muscad
Atlas
Baptist
monde
lion
suppos
he exer

3rd As with (2) The Concourse of Fear & Despair - The
Presence of these are often the Marks of the Strength of the
Cause, but without this Timidity may concour.

4th Repetition of Paroxysms.

5th Feces & watr Evacuation.

6th In Consequence of the Cause being increased by
Multipllication.

7th & Particular Generation of Putrid Matter.

I shall mention the Signs of Debility in the 3 sets of
Functions. - vital, natural & animal.

The Symptoms as arising in the several Functions.

In animal as they affect voluntary Motion. Debility
appears from a considerable deficiency & sense of Debility
preceding the more formal Attack of the Disorder.

In the Attack it appears more by the loss of muscular
Strength.

At first the Debility of muscular Strength amounts to
the difficulty of keeping on his legs. he at first can
support himself in a sitting Posture. further on
he cannot bear this - he lies along, when few Muscles
are employed in lying abed we see the Progress of the
muscular Debility, in the Faculty w^t he turns.

At last he cannot turn except by the assistance of a
Bystander, even here we may desire him to contribute
now & then a leg - lies at last on one side & further can only
lie on his Back. further if the Bed declines he cannot
support himself from sliding down. goes forth when
he exerts himself by erecting his knees to prevent

...
Pox
The h...
Heat
fair
spells
in the
hill &
it has
years
even
expos
it is a
have
the ha
These
weak
The ha
Dyest
mane
of Bo
Candi
Despi
rever
Lever
cigor
Despi
a leas

sliding down.

The Weakness is further expressed by this, that every Effort of muscular Action is attended at Tremor, the certain Sign of considerable Atonia - not so mortal when effecting Whole Limbs: but if confined to small Parts as the Tongue over w^{ch} we have more Command, it is worse, till more when The Motion of the Eye-lids are attended Spasm - when they are convinent in Squinting appear when the Ball turns up, & the Eye lid does not, even from the long Habit, follow it. - Convulsions express great Debility, w^{ch} are as much the Effect of this as Irritation. - Accordingly all mortal Powers have convulsions at the last. In Hemorrhage &c. the last Effects are expressed by Convulsions. These Symptoms exasperated are expressive of the weakening Cause of Fevers. Heat in Lined Throat. The particular Symptom here is the Tone of Mind. Dejection & Despair either in Sentiments or Countenance. A certain Tone of Mind attends a certain State of Body. one is attended with Chearfulness & Hope, Courage & Activity; another w^t Adm^rs Temerity & Despair. From a Number of Instances in which they occur, we can say they are nearly as the organ of the Tensorium. - It applies too pretty generally to the Vigor of the System in general. Dejection then & Despair arising from the Disease in Persons of those Courage give great Marks of Debility. -

of exalt
it may
In a P
parties
, Napo
letan
Santo
When t
are to
Progen
The se
rather
These
people
one is
to alm
to depa
these
The C
went.
that a
convo
suppl
one Pe
Laciv
Heart
jewel

If expressed in the countenance the other sentiments we may suppose the same state of the sensorium.

In a Person of Health the Eye is open, is directed to a particular Object steadily & is directed to a Diversity with a Rapidity as quick as thought. There is a certain Activity in the Muscles of the Face too. Debility then occurs when the Eye scarcely opens when it wanders languidly when loose in its Attention - when the Muscles are lax & expressive of Despair. - Dr Lind takes his chief Prognostic from the expression of the countenance. The rest of the symptoms of sense & thought & express rather the resistance to the Action of the Sensorium. Thus it appears in a confusion of the Head, when Recollection is uneasy, & the Mind does not pass from one Idea to the usual Associate, proceeding at last to almost a loss of Memory. This we must suppose to depend on an Interruption of the Motions over these all probably depend.

The Resistance appears when the Ideas are incoherent. This is the State of Delirium. It might be proved that all Incoherence of Thought depended on an unequal Excitement of the Sensorium. - We may suppose it to arise from Absence of Excitement in one Part, or the unequal Excitement in one Excitement appears to depend on the Action of the Heart & Sustentor most, but this increased does not give Delirium except Resistance in one Part.

on the
of Red
water
Custis
San D
Brenw
leven
Sutton
Actg a
St. Wal
of St. Be
were
Never
from
along
of the
Thus
aking
men
and
When
of Sp
Heat
Linen
It goo
Lance

In this Supposition it may be of 2 late~
Resistance may not be very great, & yet great Impetus
cause Delirium. If Impetus not very great & yet
Resistance very great Part. Incoherence may arise~
Then Delirium appears without great Impetus;
Then with the Symptoms of Debility. When the Proce-
ssion of thought is not rapid & attended w/ violent
emotions. All these Symptoms I take as Marks of Deb-
ility or Resistance in some Part of the Sensorium.
It will appear more when it is connected with a State
of Sleep. The ordinary Impetus in unequal Earth-
quakes is sufficient to give Delirium. Thus every
Man more or less determines ongoing to a coming
from Sleep. Certain Associations are so constant
long established as to remain w/ some Delirium.
If these then are interrupted, greater signs of resistance.
Thus the forgetting Drink when called for - or even
aking Excretions without calling for the Instru-
ments usually requires. All unconsci-
ous Excretions then are a very bad sign. That is
when evacuated in the usual Way, & upon paralysis
of Sphincters. - Insensibility to Thirst, when
Heat & other Causes subsist is a great Mark of In-
ruption to the Functions of the Sensorium.
It goes further when the Insensibility of the other
Senses takes Place, as False Vision or loss of light.

The man
is endea
from his
m...
of the
Court
Nature
keeper
also
that he
evidenc
only a
depress
from the
compre
soon as
in the
on the
there is
Blood
Poster
This
tions
aerie
Heart
que

The most ordinary Instance of this false Vision is when he endeavours to remove false Objects on the Bed Cloaths from him. - Still further when a State of Sleep comes on. - Sleep in Fevers is not reckoned a bad symptom if the Sleep is natural, but we distinguish between Sleep & Coma. Coma is Sleep in a higher Degree than Natural.

Sleep in healthy Persons may be from Compression or collapse of Sinking of Extentment.

That the Coma of Fevers depends on the latter is evident from its appearing in the natural Way & only arising to a greater Degree of Sleep. This these Degrees I reckon it only an sleep of the same Nature from the Suddenness of Recovery as often happens. Compressions from Effusions &c. are seldom so soon removed as not to leave some Effect.

In the Vital Functions of Circulation we first mention as a Mark of The weak Action of Heart when it cannot bear the Action of Gravity in the Blood & therefore not propell the Blood in an erect Posture so as to keep up its Action & exalte the Brain. This might be reckoned an Effect of the animal Function, but when giddiness is preceded by Tinnitus aurium. I consider it as a symptom of weakness of Heart. less Ambiguity in the Pulse - great frequency is a mark of that Delicity of Heart, when

Does
initial
desire
some
weak
the sya
We ha
Pulse
This co
the Pu
sens
This a
existe
Howev
sensio
Heat
corec
of we
weak
We m
This
of the
Lung
cont
suffr
Satis

it does not evacuate itself & therefore is soon filled and irritated to contraction.

We said Frequency was also a mark of Irritation; but we may especially reckon it from Debility, where it is weak, more if irregular; & further if concurring with the symptoms of Debility.

We have an Instance of Debility too in Slowness of Pulse sometimes.

This is difficult to explain - we can say that When the Pulse is slow in proportion to the affection of the Sensorium. - We may reckon it a Mark of Weakness. It is a sign that the Energy of the Sensorium is not excited towards the Heart. This will explain the Slowness of the Pulse in nervous Fevers where the Sensorium seems evidently affected -

Heat when lower in Proportion than would be expected from a feverish State, is a certain sign of weak Action of the Heart in Consequence of weak Energy of the Sensorium.

We may explain animal Heat variously, but it is somehow connected w^t a certain action of the Heart & Arteries. Debility appears in the Lungs when respiration is small - i.e, when the Contraction of the Diaphragm is not exerted with sufficient force & extent. When neither this or Intercostals are able to dilate the Thorax sufficiently.

When on the least Motion, Respiration

become
the
with
aborio
of Belie
not all
Kings
must be
stretch
Debt
Africa
that be
in this
of the V
The Ton
nation
for as
these
greater
still on
Besides
spect to
great
Favor
if he
face,

becomes extremely frequent; thus if a Person on speaking a little, taking a Drunk or moving himself, is affected with very frequent Respiration, it is a Mark of Debility. Labourous Respiration is in very different Degrees & a mark of Debility. We labour more when we take in the softer roots. Still further Debility when we require the Muscles between the Scapula & Ribs. And a fixed Bond must be given that they may act. When their Head is stretched or Scapula raised, it is a mark of great Debility. Still more when we take in the feeble Assistance of the Arms. Varium to impel as it were water into the Lungs.

In this Subject we must add the Change in the Tone of the Visceral Voice.

The Tone of the Voice depends on the Organ of Respiration being so far under Command as to push the Air as the Expression of sounds requires. When the Muscles of the Guttis, &c in Health we govern wth great accuracy their Debility it is a remarkable sign & still more when it arises to a perfect Aphonia. Besides these symptoms when the Heart does not propel the Blood to the Extremities so as to be cold, it is a great Mark of Debility. When Colour fails in the Face it is a great Mark of weak Circulation - still more if besides Change of Colour there is a Shrinking of the Face, the Hollow Eyes, Cheeks & other signs of the facies

Oppose
for the a
must co
connact
Pomona
Hends
upward
stories
No night
in genera
in propo
In the
for certai
that do
the Con
Lori &
Mark
of each
of the
I must
Show e
happier
The Pe
inty fo
Langus
they are

Hippocratica.

In the natural Functions of Appetite & Excretion we must consider the Symptoms without examining the Connection of the Stomach & Serosium. It is a fact of Vomiting is a Mark of Debility and since so frequently attends Deliquium Animis. If the State of the Serosium depends on the Impulse of the Blood in the external Arteries we may readily explain the Want of Appetite. We might explain this Want of Appetite otherwise, but in general it is a mark of Debility as it often occurs in proportion to the Symptoms of Debility.

In the Excretions The outlets of Economy for certain purposes are provided with certain Sphincters that do not open except in necessary Evacuations when this Constriction is abolished it is a great Mark of Debility; The Difficulty of Deglutition is a considerable Mark. You may enumerate many other Symptoms of Debility. I have mentioned enough for you to judge of the Strength of the sedative Causes of Danger. I must add that all these Marks are more dangerous when connected with a stimulant Power. When this happens appears from considerable Sensibility at the beginning of a Disease; while Marks of Irritation in Progess, are not so prevalent. Intervalupted Sleep, languor & Drowsiness, show Marks of Debility, but when they are uninterrupted it is a Sign of Irritation still more

Don the
rotation
you is en
Don Va
to Mar
Cathar
so weak
espec
ility.
of Sover
narily
for co
sub
Then a
ne com
more o
We had
almost
not out
than we
The Son
& Thir
gather
in or an
so, yet
indency

When there happens watching for Nights & Days - The
Irritation is expressed when without violent Emotions,
there is constant Restlessness & Desire to get out of Bed -
When Vision is quite destroyed, there is often a Conductio-
tis Manusum joined to the Impatience of getting out of
Bed, which is a mark of some Irritation - A great Frequency
of a weak contractile Pulse will be a mark of Debility but
especially a mark of Irritation subsisting & great De-
bility - When Spasm subsists w^t great Debility, a mark
of Irritation - hence Simplici Strumentum Fevers &c
generally a mark of Irritation - Convulsive Motions
often occur in Irritation & Debility as
Subtilius Tenditum.

When we consider how often Malaria & Coontagion
are connected w^t Putrefaction & how often they have
more or less of Septic Ferment.

We shall think that the poison of Fevers is centered
almost entirely on that of the Putrid Kind, as would
not entirely refer to this, the no where greater danger
than in those Cases where Tendency to Putrefaction appears.
The Tendency to Putrefaction is expressed first by Nausea
& Thirst. The Presence of putrid Matter in the Stomach
attended w^t Nausea. When no Putrid Matter is thrown
up, or any Reason to suspect that the Matter has become
so, yet if very considerable Nausea we may suspect a
Tendency to Putrefaction - even vegetable Matter may

become
spont
M. & Da
Mather
Kense
ambigo
the 1st
Nark.
First w
Last co
Garem
The lat
red &
Frequen
ons &
journ
Bile is
especial
It is m
Bludo.
the Ma
in the
Now a
Then b
out the
This is

become putrid, & therefore is such Nausea caused for
lacking of all Appetite for Food, by great Heat
that Druch may be taken in to delate the Putrid
Matter & promote its Excretion by Concoction.
Hence great Heat a Sign of Putrefaction. These are
ambiguous, — more certain are offensive Tastes on
the Mouth. & Stink of Breath may be a very strong
Mark.

First we may distinguish it in the Color of Urine —
A dark colored Urine we said attended Stimulus, but a
difference between this & that peculiar to Putrefaction.
The latter is not the high colored brown but has more
red & generally turbid.

Frequency of loose Stools if these are very faded varie:
ous Causes of Diarrhea in Fevers but especially
from a bad Bile in the Intestines. It appears that
Bile is thrown in great Quantity on the Intestines
especially in putrid Fevers.

It is most disposed perhaps to the Putrefaction of our
Fluids. However it be certain it is, that it accompanies
the Marks of Putrefaction. It is favored by Stagnation
in the Intestines.

More certain Marks are the Deposition of the Blood —
Seen by cooling it becomes a Gelatinous Nap, with-
out the usual Separation of Coagamentum & serum.
This is hardly to be influenced by the manner of Disease.

Therefore
work
consequently
in the
outfield
the go
but type
is with
the yellow
Blue-W
onation,
was also
I have a
really
magis
at Del
yptized
Concre
have seen
between
it is too
matory
dissolut
affair.

therefore when appearing much, it is a mark of the
yolk having lost some power of correcting & this the
consequence of Putrefaction.

When the Coagulum is formed the Matter may be
out of f'd, but the colour of the Serum has influenced
the Globules so to be dissolved in Serum as to give
the appearance of the albumen Carrion. It is a mark
now without this, a yellow colour is a sign of Putrefaction.
The yellow arises from this, or from a reabsorption of
the same cause w^t could give rise to this Reab-
sorption, it must be I think referred to the other cause
where the Matter is more ambiguous and those
that have an Inflammatory Buff. This has been ge-
nerally referred to an Inflammatory state, so the
theory is false; for in the early & other twines of
putrefaction this has appeared. It is not then a
sign of Putrefaction & besides it does not appear much
concretion as that in the pure Inflammatory
have seen the yolk separate but it was
between it & the globules was a gelatinous Mass
is too or less quantity than in the pure Inflamm-
atory. We may still more certainly determine
Putrefaction if the subjacent globules are exceedingly
affusible.

In London
lived a
few hours
The Effus
the Cata
recovers
Cotton
Putter
Congestive
in han
wounds
said so in
this m
Kembra
Dagric
Death
Intera
tion, tra
perhaps
at least
of Putter
they que
of Putter
flood to
to form

Febres

168

In Consequence of this Dissolution Hemorrhages are received a Mark of Putrefaction - Partly is this owing to a certain Atrophia taking place in the Vessels at the same Time. The Effusions appear in different Shapes - In Women by the Catamenia appearing before the usual Period. These discourses itself by a very dark red & often a subduing to the Bottom. The Nose is subject to Hemorrhagy - It is a mark of Putrefaction when without Cause or Inflammatory Congestion evident. Coarseness of the Eye & even Pores of the Skin have forced out Blood. - Blood from various circumstances pointed into the Alimentary Canal - more or less Haem. is it rendered by Vomit or Stool.

It is a mark too when the Blood is effused onto cellular Membrane ^{the reticulum}. In a moderate Degree it produces the Petechia so much spoken of lately Death with regard to their Appearance. In the latter End of a Disorder they may not only depend on Dissolution, but also in relaxation of Tissue. Hence may perhaps prove critical - They may be more innocent & least when appearing late & without much Marks of Putrefaction in the first cause. It occurring at first they give Signs of the Atrophia brought on by the Strength of Putrefaction. More Dangerous as declining from the Fluid Colour - & still worse when so considerable as to form Maculae & Ulcers -

is but
not to per-
fellow or
gomen
Works of
or like
the man
This sa
one as
may fit
the Sec
oschau
The war
weat
Author
Proces
Vain Sig
tined at
Athe
Behave
maged
conclu
that the
& their
This le

See the dissolution appear when the Vessels are relaxed so as not to pour out red globules but the Serum, & give the yellow or yellow Fever. It is not farre from the arguments given just now, & especially from the new great Marks of Perfection in this Fever. - Yellow Effusions we observe in the Colours Fever of the West Indies, but the marsh Fevers of more northern climates. These are of the same kind only in the last comes on later & those alone as being more from relaxation than dissolution may prove critical.

The State of Effusions gives a Mark. Thus the Fever from discharge of the liver, fatal sweats. I cannot well distinguish the various Powers of sweat & perspiration are often forerunners of what Author distinguishes under the Title of Cadaveric Powers. It occurs often some Days before Death & is a very certain sign of its approach. This period. State may be combined at an inflammatory or stimulant & especially at the last, with a State of Debility or sedative.

We have now gone over the symptoms of Fevers arranged so they express Irritation, Debility or Perfection. Concluded this Subject of Febrifugous Faculty observing that there is generally a concurrence of these Powers, their Degree must determine our Remedies.

This leads us next to the Method of cure we cannot

give a
we all
are at
is Unifor
ing all
conduct
in Meth
series to
e shoul
ing & the
the Cause
Method
Tables in
which.
by Plan
tions con
munity
P To fa
P To re
District
P To do
The Part
inding
under Th
P To do
P To do

give a Method as applicable to particular Species, w^t we
have not ascertained them. We shall only give a generic
one as applicable to Genera - In all Nature while there
is Uniformity in Principles, yet thro' each particular
there are such subtle Differences as often escape us - Our
conduct must be regulated by generalizing our views -
our Method perhaps will apply however to differences of
Species & Varieties of Varieties - for if we had entered on it,
we should chiefly insisted upon the difficulty of establishing
& the limits to be observed - What we have said of
the Causes & Prognostics lays a Foundation for the
Method of Cure - Our Causes agree w^t the generally
established genera of Fevers, of Inflammatory, nervous &
nervous.

My Plan of Cure is to be reduced to the 3 general Indica-
tions corresponding to the Causes of these genera as Stim-
ulant, Sedative & irritant Power prevailing -

1^o To take off Effects of Spasm.

2^o To restore Vigo of the Sensorium, especially the equal
Distribution of the nervous Power

3^o To abate Putrefaction -

The Part of our System will be conformed from our
individually the most confirmed Remedies arranging themselves
under these Heads -

1^o To obviate the Effects of Spasm we are to

2^o The antiphlogistic Regimen, consisting in the

moderate
by app
using othe
P. Rema
Enging/
fingera
To rest
For this
vitio, b
radials,
Tans. b
hereafter
II Tool
spur P.
powder
a called
cathexis
It const
indicates
fewer ab
unrever
tality.
So said
However
sense of
this no
Infor

moderating their Irritation that are constantly & unavoidably applied to the System, & at the same Time amending every other Irritation within or without -

i. Remedies suited to take off Phlogistic Tension - viz Bleeding, Purging (considered as an Evacuation) & the Medicines called Vinigerant.

To restore Vigor of Sensorium. &c.

For this Purpose we employ Diluents, Neutral, Sudorific, mettice, Blister, warm Bathing, cold Drinks & cold Bathing, Sudorials, Antispasmodics & Tonics. I have chosen single Terms. What has been meant under each will appear hereafter.

ii. To obviate Putrefaction we employ certain Means by withdrawing the Fomes, antiseptics, & Tonics. Let us consider them particularly in 1st. Antiphlogistic Regimen so called because most fitted to the Cases where Phlogistic diathesis takes Place.

It consists in avoiding all Irritation - This Attention is indicated in all Fevers. Certainly in all States of a Fever when any hot fit yet subsists - yet making this universal is wrong - For as Fevers will arise of insensibility, it will appear that seeming Irritations are proper. This is an Ambiguity, & indeed will often occur at first. However in the latter Stages too we shall find that the presence of an Inflammatory State may render the avoiding this necessary -

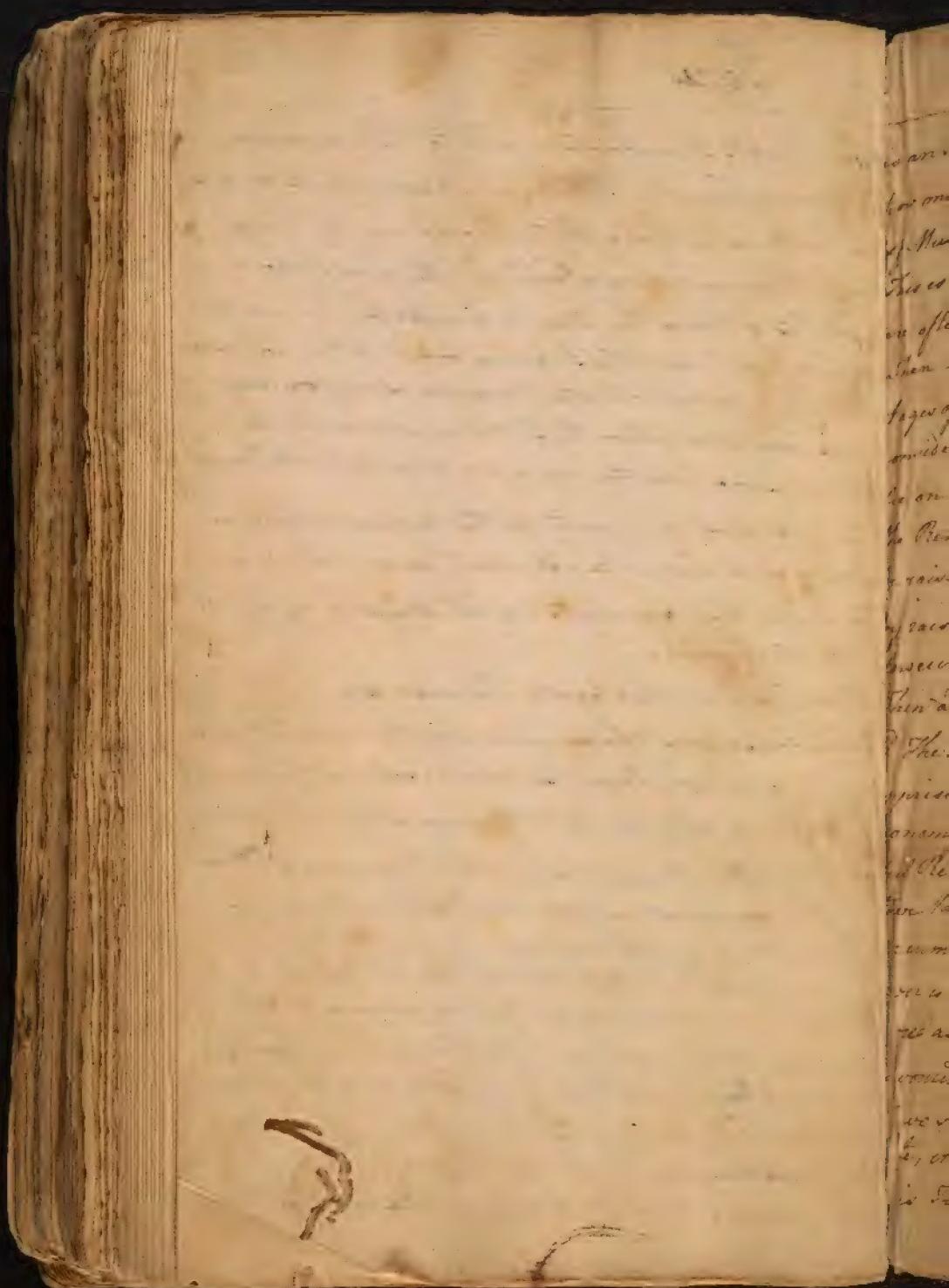
In cases of sedative & Septic Powers, this is doubtless a



especially with Stimulants applied to the Sensorium
only appear allowable. But wherein Spasm subsists perhaps
Stimulants are hurtful - All the Cases I can find where
Stimulants are given are attended a little or no Spasm. —
In cold fits of Fevers they may be admissible if we can pos-
sibly give the Spasm before the Spasm is formed; but here no spasm
exists. In Intermittents after Paroxysm is come on, every
Convulsus tends to lengthen the fit & are serviceable only
in Intermissions. Another case may be in Continued Fevers —
in the latter least ambiguity for the Inflammatory Con-
gestion may be when we do not readily perceive it. We con-
clude therefore that Stimulants are not admissible as long as
the Hot Fit remains.

The Particulars of Antiphlogistic Regimen are
To avoid Sensations & hence avoid Light & Noise but more
especially so we avoid Impressions & Sensations that occur
on Excitation of Thought. But Thinking will difficultly avoided
extremely difficult especially in the Beginning of Fe-
ver. This Consideration gives me a Doubt with regard to
the general Rule of avoiding Impressions — for in the same
being thoughts of Delirious Persons I think I have found
Light & Noise necessary to bring back our ordinary Train.
This is more necessary when of Delirium is accompanied
with violent Convulsions. I have frequently put of a Tendency
to Delirium by having tight or a compain ~~or~~ put
of the sensations from external impressions.

The avoiding Bodily Motion — Abstaining all kinds



soon Irritation to the Sensorium: but if we consider
how much the Tonus or Muscles is connected, the Excitation
of Muscles influence the Tonus of the whole System,
this is not attended to. - I think that our Views on Bleeding
are often frustrated by keeping the Body in a Posture
when many Muscles are in Action. Hence the Advan-
tages of Bleeding in a declining Posture, not enough
considered. The least muscular Action is excited when we
lie on the Back - but this is not eligible, as it retards
the Return of the Blood to the Head. - The Head then should
be raised & the Tendency to slide down may be obviated
by raising the Feet, provided this can be done without
moving the Head, especially is Motion to be avoided
and accompanied with Tremor or Deliquium.

The avoiding Heat & Cold - You are doubtless well
versed of the great Powers of Heat & Cold on animal
organization - That they may be Potentia or enter a use
as Remedies, but have that the Transition from one to
another Place by very slender Changes in Degree or
circumstances. The Attention to these difficult as this
one does not depend so much on their Intensity &
as on the relative State of the Body. - I have on
occasions tried out the Principles on this Subject -
we said that supposing man in the most perfect
state, that is, allowing for Climate nearly at ~~98°~~
the Temperature of Body would not subsist without the

Red
the
Bob
the
this
who
for
the
self
the
were
from
400
1000

Doge
is to
When

of any
on w
of the
Elizor
jewer
than
In the
cold
of the
after

Aedium surrounding it is cooler. Whatever Exceptions the Fact is very general. This supposing the Heat of the Body must depend on the Heat of the External Air & the Temperature of the Air which is best adapted to receive this Heat of the Body in our Climate is 62° .

When above 62° the Body feels hot, when under it cold. To determine their Effects in Fevers. Physicians have observed that a certain Heat was hurtful, but this not sufficiently ascertained. Dr. Sydenham perhaps first observed that Rheumatisms & other Inflammations were aggravated by a certain Heat. And his Observations show that such Heat moves a Considerable Irritation & therefore hurtful in Disorders of the Inflammatory Kind. It appears that in such Cases a Degree of Cold less than 62° is useful. The question is to determine the limits of this.

When Diathesis Phlogistica are evident there is no danger of applying Cold considerably below 62° . This is a Case in which the Effect is as much determined by the Condition of the Subject as by the Intensity - Here appears that Vigor which renders People less affected by Cold & by its generating greater Heat makes a Temperature lower than the Standard necessary -

In the small Pox it now appears that a Considerable Cold is allowable - I explain it from the Description of the small Pox having great Hematuria & accordingly after the eruption the Fever brought it is in Consequence

gl
Who
Body
than
was
The
not
on
Ach
dus
grea
att
Som
Vapo
the
Dan
Who
Forc
This
Any
Selt
Sohac
partn
Vapo
Non
Iner

of that Invention inducing - Death or Philosophy.
Whenever perhaps there is a hot Fit fully formed, the
Body as increased in Heat perhaps requires more Cold
than 62° - Cold then is useful in some Cases, & at last
all Fevers every Degree of Heat above 62° is hurtful.
The Cases in wh Cold may be hurtful, are when Spasm is
not yet formed a Hot Fit come on. The Body then is
in that State of Debility that particularly favours the
Action of Cold. When therefore Fevers approach very qu-
ickly & with great Debility, the Exposure to Cold gives
greater Debility & more dangerous Spasm.

At this Semi Heat by preventing the sinking of the
Sensorium & obstructing the Constriction of the extreme
Vessels may be useful.

Then informed Fevers the Sedative prevails & there is
danger of the Sensorium sinking in extreme Degree.
When in Fever it is necessary at the first attack to
Force Sweats Cold is dangerous & Heat is useful.

This usefulness of Heat will appear to you contradic-
tory to the universality of an Antiphlogistic Regimen.
I'll apart that all general Stimuli are hurtful, but
I shall make Exceptions in favour of Stimuli that act
partially. Thus Heat acts principally in the extreme
Vessels - relaxes them & gives rise to an increased Ex-
cretion of nervous Power.

In critical Sweats Heat is admissible. this is confirmed

by at
to app
entia
y. but
Flow
Head
Furt
Entia
it & t
Thee
Costa
Head
float
Fit ha
The w
Entia
does
con
In In
In the
so so
not a
6th Fr
Head
J. syst
pred
mona
recofo

by universal Experience, but not easy for Practitioners to apply the Rule - Difficult to determine when Sweats are critical - When Sweats are attended with more softness & Fullness of Pulse with less Frequency - When the Flowing of sweat is attended at Relief of Heat thro' Head, Delirium, Restlessness & difficult Inspiration & with Sleep. There is no Doubt but such Sweats are critical; but that God would be hurtful by supposing it & that a greater Heat of Body may be admissible but there are Colliquative Sweats in a Heatish Thirstful. Certain Sweats are voluntary if not urged by external Heat, & so often prove pernicious.

Heat by being pushed too far may increase the hot fit, hence occasions topical determination & therefore the Management of Heat extremely difficult. Critical Sweats then, & certain contagious Diseases where we shall mention, are the only bases of continued Fevers that admit Heat.

In Intermittents there is both Hot Fit exception in the latter Heat admissible; in the former it is so soon to terminate in sweat that we would not apply bold.

5th Stimulant Aliment.

Heat - The Action of the Stomach moves stimulated System - And hence a frequency of Pulse attends the first Operation of Digestion. Food then especially stimulant. Abstinence then in Fevers is extremely necessary - but as we cannot refrain from some Food, we

must
lance
Lever
facture
is to an
The Are
Nothing
require
their
What
Off
of the
Dang
we ma
Rule
no off
2d Ab
God of
thing
for No
would
unifor
say
2d &
That is
all fo
regard

must at least ~~be~~ ^{to chose} that of greater Solubility & Alka:
linity. Hence liquid Food are ^{least} & alkali.
are avoided as giving Stimulus & increasing putre-
factive Tendency in Fluids. The Rule of this Country
is to abstain entirely from animal Food is proper —
The Antients had a Nicety in giving Diet of which we know
Nothing. The Inhabitants of warm Climates indeed may
require more regular Food as more sensible to Changes: but
their Doctrine was founded as much on Theory as Experience.
What is said in these Observations amounts to this —
Of Appetite for Aliment. This discovers the Severity
of the Disorder & therefore Stimulus of Aliment less
dangerous — But the the Appetite may guide us not
we may very readily go to excess. And therefore this
Rule not so general as that of avoiding Aliment when
no Appetite.

Abstinences most useful at first — at the latter
end of the Disorder, aliment may be useful to support
Strength. So Intermittents we are to take that time
for Aliment most distant from Suspicion & in conti-
nu'd we are to give Aliment in the most perfect Re-
mission — This Attention to Time becomes less necessary,
as we are cautious in giving mild antiseptic Food.
The Antients rejected properly all stimulant Liquors,
that is all Liquors impregnated with aromatics & from
all fermented Liquors — hence Wine. Disputes with
regard to this, w^r we shall consider hereafter as of

adom
ever
from in
usual
before
acula
fe grou
is at the
septic
At to a
of The
of Drin
all o
Austra
3 Days
phlog
rule
He sa
yend
not go
He fo
Blood
the R
that E
them
explai

so miserable it must be as a Medicine & I do not how: ever agree w^t Colles in supposing that Abstinence from usual Wine is of more consequence than abstinence from usual Food; but Food not only stimulates the Stomach & remains longer & fills the Vessels. - This indeed will be relative to Habits. If a Person uses vegetable Diet & much Wine & Laxatives, Rule may take Place; but Wine attended w^t Considerable Dilatation & agreeable anti-syphilitic Food.

As to Stimulants arising from the Body we must avoid Thirst. This is generally in Proportion to the Demand of Drink, & when we consider how useful Delicate Drinks are on several Acc'ts, I see no Foundation for some of the Authors recommending Abstinence from Drink for 3 Days. Thirst as a Stimulant ought on the antiphlogistic Plan to be removed. - As to the ancient Rule a base is explained by Dr Clegg Horn.

He says in the greatest Urgency of the Thirst in Paroxysms of Intermittents the Spanish Physicians do not give Drink till sweat is ready to break out.

He finds a Reason first in the great Collection of Blood in Lungs &c. It would be aggravated by filling the Stomach. - Besides this, these Physicians say that Drink tends to prolong the Fit to the whole spon- taneous Practice has this Tendency. We shall hereafter explain this perhaps. We may observe that Drink is not

to be
of Cu
Inger
Lient
3 Th
haba
Ham
Viper
great
ledd
Touca
This
of the
rating
for the
the O
4 th to
Every o
a Sen
that
& con
much
Blood
therefo
shall

to be regulated by the Thirst of the Patient.

Conditions of Fevers are to be removed, whether from
Ingestive Fluids or from what is thrown out in too great
Quantity or altered Quality.

Stimulus from Continence. - In all fevers not consider-
ably below & putrid, Continence commonly occurs -
Arises from the general Constriction of extreme
Vessels. The Tension of the alimentary canal has
great Effect on that of the system - Hardened Forces ab-
sorbed then will prove stimulant - But further in
Feverous Fluids are accumulated in of abdominal viscera
This must be increased by the Constriction of Vessels
of the Sartorines & therefore the relaxing thereof will
alleviate the Forces will relieve this. Glysters are proper
for this, tho' not more stimulant than just to answer
the Purpose, otherwise Purgatives.

To obviate the Accretion of the Fluids in general
every Person will admit that in all Fevers there is
a Tendency to Putrefaction & alkalescence. Hence
that this must be moderated by antiseptic Alimens
& considerable Dilution. They cannot have often
much of the Deposition of the Fluid Part of the
Blood, hence an Inspection of the remainder &
therefore a Lentil supposed. This allowed, & we
shall not now examine, Dilution appears equally

well
Jan
We p
when
geotic
desce
unseen
of July
We w
afterno
Prolog
Shall
how m
creat
The i
when
I've been
3rd Dec
before
few if
The S
Shaw
action
if we're
the ten
we sh
And T

necessary. Therefore Dilution is a considerable Part
of antiphlogistic Regimen.

We proceed now to the taking of Excess of Spasm
when it occurs. Many of the Particulars of antiphlo-
gistic Regimen are applicable here. You will easily
discover how many of these Particulars as aborting
usual Irritations are withdrawers from Irritation
of system.

We especially however obtrude Spasm by taking of
arterial Tension particularly that in Phlegmatic
Vulgaris & convulsio.

What ~~the~~ Difficulty there may be in explaining
how the increased tone of arteries system en-
creases Spasm, the fact is certain - for we find
the increased Action of the Arteries greatest in the Phlegmat-
ic Phlegmatic Diathesis is certainly present.

because this Diathesis gives longer fevers when it occurs.
Because whatever Stimulant has the Effect of nuturing
Arteries gives great Spasm, longer Paroxysms, & there-
fore often changes Intermittents to continued Fevers.

The Remedy of the Phlegmatic Diathesis is to cool letting.
The Tension of Arteries depends partly on ^{the} Increase of the
Action of the Sanguineum partly in distending Fluids. Hence
if we consider how evacuating takes off the Tension & how
the Tension of one Part is connected with that of another
we shall see its Effect.

And then V.P. should have the Phlegmatic Diathesis.

But
conside
reperi
to the
in See
Power
of the
staff
of the
distem
well. Ga
nation
diseas
motion
be eas
When
on the
Debilit
Then
it is da
of the
even in
differen
Fever
trains
the Ind
sation
We know
is very

But tho' S.I. is indicated in so many Fevers, yet we must consider that the Excitement, the vigour of the Sonorium depends on a certain Tension given by the Heart & Action to the Vessels of the Sonorium - When Debility prevails in Fevers they end fatally, it may be not only from Poisons attacking the Sonorium, but may take off the Tone of the Arterial System. Poisons indeed may do this - It appears from the Dissections of the Persons who died of the Plague at Marseilles & others, the Heart was found intended commonly to double its natural size, & arteries full & very engorged w^t Blood - Liver commonly of double natural size, all these are to me proofs that the Tone of arterial system was so weak that the natural Contractility could not unload them as usual hence to be considered as a principal cause of the Death.

When Death arises from Causes of Debility it appears in the Weakness of the Pulse when these Causes of Debility occur, when the Debility is approaching or even reason to suspect to Debility as soon to prevail it is dangerous to employ means for taking off Tension of the Arterial System - There are therefore Aments to S.I. even in Fevers very inflammatory. There is not a more difficult question than when S.I. is to be employed in Fevers? There are here 2 general Rules, indicating or contraindicating it.

I indicated when: Stimulus is more in Proportion than Dative or Septic. Many circumstances determining this. We know Stimulant Power to prevail when at first the Pulse is very frequent, accompanied with Strength & Fullness

and
Then
of the
appea
Before
When
in othe
marr
Patron
I would
itat e
another
the Syr
Vene
Gloria
very o
in the
despite
the a
sary -
than t
as colo
In suc
using -
Gloria
2^d Vis
us Spao
The L
crease

and especially if joined to a sensible Hardness
Then considerable Heat too is present & also when the Colority
of the Stomach is perceptible. This will be more indicated when
appearance of topical Determination, as Head-ache, furious
Delirium, Difficulty of Breathing.

When these Marks are not sufficient by decisive, we take
no other Considerations. Thus when we know that Causes
more evidently stimulant have preceded: as when the
Patient has been exposed to great Heat, Labour or Cold.

I would not be positive but Cold may excite Fever alone
at least determines particularly to Phlogistic Diathesis.

Another Consideration is the previous known Vigour of
the System known to be disposed to Phlogistic Diathesis.
Tense in the robust & youthful. The antient from their
Climates perhaps avoided Bleeding in very young &
very old Persons. The generality of this Rule was doubted
in Celsius Time. yet certainly old Persons are less
exposed to Phlogistic Diathesis. In very young Persons
the Faculty is greater & Tension less so that V. S. less needful
very - In the Advance of Age Caution necessary.

The Circumstances determining to Phlogistic Diathesis is
a cold season & cold Climates -

In such perhaps there is always snow or ice of it, but by
using so freely here, we have badly transferred to warm
Climates the same Practice -

? V. S indicated in Proportion to the recovery of the Disease
as soon greater than & Phlogistic Diathesis then greatest.
The Contraindications of V. S are for the most Part con-
verse of what we have mentioned. Accordingly forbid these:

ver
but we
is not q
and
Other
When
As se
in the
be ha
Inflam
In th
geno
when
Dissolv
In ac
with
When
carefu
We see
ides
to the
a. Tere
If the
ing co
do Ab
chang
If from
quire
more

ver Sedative Power is present or is expected to prevail but we are here to determine by Symptoms when the Pulse is quiet & full & especially if weakness of Person & animal Strength.

Other Considerations when they are conquisous.
When Sedative Causes have preceded Death may arrest the Sedative either does at first or soon will succeed in Fevers from Miasmata or Contagions Caution is to be had. We may use U.S. at first perhaps as much Inflammatory Affections often attend

In Miasma & Contagion U.S. appears in general dangerous. Other Causes of Debility influence these as when the Disorder succeeds large evacuations, other Disorders, Grief, Fear, Watching &c.

In all these U.S. is to be abstained from or used with great caution.

When Disposition to Debility & Putrefaction. Hence N.S. are fully to be used in warm seasons & climates.

We see warm Weather take off Phlogistic Diathesis it becomes a Tendency to Putrefaction

to the Disorders have subsisted long & therefore Debility a Tendency to Debility may be more expected.

If the Diathesis Phlogistica has the chief Phenomena continued Fevers. In intermissions we may presume its absence. And hence we find Intermittent Diseases changed from them ~~the~~ Intermittents do not admit U.S. If from Phlogistic Diathesis they should particularly require Bleeding yet the more of Intermittent in Form, the more Caution must we have in U.S.

These
These
Pratic
offer
S/ with
misch
wore
Vitee
cilia
Anot
fet ha
gold
we ma
indice
fund
of Gray
frum
true
Separ
have g
earfor
Draws
gister
has a
rapt
Diath
totle

These are the general Rules of Practice w^t regard to C.B.
These have arisen from Considerations before Trial, but
Practice has furnished us with Signs. If the Pulse becomes
softer after V.S. it is a Sign of Phlogistic Diathesis present -
Without greater Debility the frequency & Celerity are de-
misted after V.S. it is good, but it must be avoided here if con-
curring Signs of great Debility.

If it relieves Difficulty of Breathing, the Decubitus Diffe-
riles the Delusion & we may be certain of its property -
Another Mark is the Appearance of the Blood it self.
If it has flowed in a full Stream from a large Bifice &
voided very suddenly & it still is a uniform Coagulum
we may suspect Desolation & Debility & hence a Contra-
indication to V.S.

Under these Circumstances there is a full separation
of Capsamentum & Serum & a Separation of a lymph, suf-
ficiently tough on the Top, & is established as proper
ly as not separated is no Mark of debility, nor is a less
separation a Mark of Phlogistic Diathesis - As I
have found by Experience - Indeed I think that small
Capsamentum with Buff, that by its Contractility
draws up to a Purse gives the greatest Mark of Phlo-
gistic Diathesis. When the Capsamentum is diffused it
has a thin Crust on the Surface at little Serum sepa-
rated, I look upon it as a symptom of less phlogistic
Diathesis, & the Serum as more or less red like the
Lutica Carnium, shows Satisfaction.

filler
Means
and
loss
held
The
shear
Storm
The Ham
stable
hang
seen to
of 1772
he loves
world in
Vintages
titions
Europe
Dear
Karma
Type, 20
no judge
may be
that fit
mucose
Searc
when in

yellow Serum too is the same, tho ambiguous in some
Measurias or some Rheumatic Cases of this Country
and no prophyseency could be expected, I have seen yet:
the Serum - This then is a mark, perhaps of Phlegis.
the Diathesis as well as Putrefaction.

The most difficult Cases of Fevers with regard to U.S.
have Fevers has subtended long & Debility & signs of Topical
Inflammation at the same time.

The Measure of U.S. Practitioners have found difficult to
establish ^{there} many Mollacess on both Sides.

Many Fevers prove fatal for want of U.S. many because it has
been too plentiful - I have given you Rules for determining
1st The Constitution of the Patient, 2^d The Circumstances
he lives in - his being an Inhabitant of both Countries
might have added according to ^{3d} Vicissitudes - Thus intense
Inters & summers in northern Parts of America. Pre-
vention is important that we do not bear U.S. so well as
Europeans. The Circumstances are Debility previous Disease &c
We are influenced by the cause whether with or without
Human & Contagion 4th as more recent 5th according to
Sup. as more continual or intermittent especially
we judge by the Symptoms, tho this to young Practitioners
may be very fallacious. Thus if a pluted Fever violent hot
but short - These bear a single Bleeding, but a 2^d may be nec-
essary. But the Symptoms will not down less former
circumstances be taken in, lastly the effects of U.S.
when instilled must guide us. A difficulty occurs, said

in topics
sent off
transac
actions
of Ponca
to Dist
line on
therefore
Drawing
have se
and no
slam
1 Phoe
In Bro
placed in
in the Ja
in the 82
general
convenie
this. I ha
on their
to be done
greater
But this
as well i
large

a topical Determination when great Debility is also present
and often in these Fevers from Delirium, Insuffusion of humor
in the Head, Ductum, & subcutaneous Tendons have Indi-
cation of Inflammation of the Brain; & bleeding here proper.
Topical Inflammation always gives general phlegm;
Diathesis, Bleeding would be indicated, but we know
there may be topical affection without occasion. Fever &
before not giving Phlegmatic Diathesis. So such of
drawing Blood from a Distant Vein has no Effect.
I have seen an Inflammatory opacity of the Cornea, which
did not cure by the most copious V.S. Topical In-
flammations then unless accompanied with Phrenic
Phlegmatic Diathesis are not Indicants of Blood letting.
Proof of this we know that topical Inflammation may
abuse under great Debility of the Head. Thus the Inflammation
in the Face. However A topical Inflammation may be hurtful
in the Part, & may irritate the Serosum, yet may not admit
general Bleeding without great Hurt. Topical Bleeding, if
convenient may be employed. - but difficult often to measure
this. I have seen Leeches applied to the Temples go to excess
in the whole System. In Affections of the Brain, topical
Bleeding on external Part of the Head, it is probable having
greater Effect than general Bleeding in Affections of the Head.
But this affection of the Brain may be to a considerable Degree
not to be relieved by V.S. without injuring the System. than
than general or topical V.S. This is the most distressfull.

base in
through
the Liver
Virginia
the Pubic
signature
of Shakes
• been
without
the Blood
sensation
lacking of
connection
have bee
In pro
mised
by the
Tulso.
very eas
tly of t
In very
noticed
Editions
A. Seco
To con
stain
may be

case in Fevers, tho' as so we must take the aneps Remedium & therefore employ, if possible, topical Bleeding.

The Quantity of Blood to be drawn is difficultly ascertained. Physicians let by Patients & determining from the State of the Pulse, the Quantity, but this is not accurate. In tying a ligature we accumulate Blood on the limb. The Resistance of the ligature is equal to the Force of the Blood flowing from a Vein, because it does not flow sensibly from a Vein opened without a ligature. Therefore during the whole Operation of N.S. the Blood comes out equally. Accordingly I have found no alteration during Bleeding, when Deliquum ensued directly after taking off the ligature. Indeed we may judge when Deliquum comes on before the ligature is loosed. This however at me is a rare occurrence & the Pulse a very fallacious Test whether.

In great Tension of the arterial System, we often have determined the Propriety of U.L rather by the Pulse perceived by the Patient, than by an Alteration we could feel in of Pulse. Other Circumstances may be taken in, tho' nothing very certain. In a vigorous & moderately robust Persons, loss of Blood is a larger Evacuation - after this great caution. In very robust Persons at great Phlogistic Disease it will not exclude this, tho' this gives rise to great Deliquency &ious Convalescence.

A. Second Evacuation is Purgatives.

To consider their effects, we must consider that it cannot be started without Stimulus applied to the Intestines. This may be of such a kind as to communicate Stimulus.

and
time
taking
confid-
tion
with the
the last
the time
by so g
Part o
as good
All the
vacca
tione
Dmotic
Pages
record
been ad
gatious
uation
condem
migh
as well
ment
Budget
then de
if it in

And therefore certain Purgatives may hurt as much by Stimulus as the relief by Evacuation. Purgatives therefore taking of Tension are not admissible, except Stimulus much confined to the alimentary Canal. It is a known Observation that the evacuants by Purging, has not equal Effects with that from V.S. The Reason is evident. The Tension of the Intestines much connects with the whole System, but the Connection of it w^t the sanguiferous System is not nearly so great as the Connection of Tension of the different Parts of that System. Thus loss of Blood from a Bleed is as good perhaps as loss from Intestines.

All the Reasoning against Excess in V.S will apply to Evacuation of Purgatives. This may be the Reason why Practitioners have ~~and~~ ^{and} Purgatives as evacuants, in Fevers. Hence Emollient Elixirs substituted. But besides the Evacuation by Purging takes off the Determination to them, so useful in Fevers. According to a spontaneous Diarrhoea or severe purging has been always reckoned hurtful in Fevers. & hence Effects of purgatives not answerable to what we might expect from of Evacuation. Nor have they been much recommended. Hydrocephalus condemns them in Pleurases & Peripneumonies, however we might suppose however they would derive from V.S. as well as V.S. But the Consideration of taking off Determinations to them must be taken in. The antiphlogistic Purgatives may be used but from the Danger of Excess, & from deriving from the Surface not much employed.

Yet in some Fevers Purges are very good, let us consider whether

in me
the per
that is.
is a bo
the ento
the Re
Suppon
by sta
Kings
estain
the add
nowid
in fro
The two
excutor
To othe
This sh
O Prema
Favers, u
Sed. A
Gmalign
marks -
These,
at Marv
ellous
"Dr
Seven
ous, F
as well

in such Cases they do not act differently from diminishing
the general Tension. - They are good in Fevers called bilious.
that is, Fevers with considerable Determinations of Fluids to
the abdominal viscera. This I said was peculiar to Fevers of
the intermittent Kind especially the autumnal, because
the Body seems under a particular Vibration at that season.
I suppose with Practitioners that Rides in these gives acid Matter
& by stagnating gives Rise to the Absorption of it & hence
Purgatives useful. This Affair of Absorption is not established
certainly; but besides, it appears that Fluids determined to
the abdominal viscera do not act always by the Quantity
round into the alimentary Canal, but by being accumulated
in some Vessels occasion Spasms. In Proof we find that
the Liver &c are much enlarged. The opening the numerous
secretaries of the alimentary Canal may be the very way
to obviate these Effects.

This shews the Application of Purgatives in Intermittent
& Periodical. It is also the Foundation of Purgatives in febrile
Fever, where Ferment has often a Tendency to induce Intermittent
Fevers so much Salt of Chrysotals of Tartar in purified
& malignant intermittent Fevers, so frequent in warm Clima-
mates especially when exposed to marshy Exhalations.
These Fevers frequently attend Petechia, but then not always
a Mark of Petrefaction. In nervous Fevers from humor-
Effluvia, this is the Case when attended w^t Petechia.

Dr Mentre proposes curing all Petechial
Fever by purging. Many of his Proofs are very ambigui-
ous, thus he uses Ozymel Scllum often w^t an Emetic
as well as Purgative; his using ozymel Scllum leads

(a) This is a quotation from Alexander's
Epays - the sentence is incomplete.

me to observe that Tartar Emetic has been used as purgative. I believe that it has bad Effects when it purges; the many late Practitioners quite overlook its evacuating Effect, which is certainly very considerable. I shall endeavor to shew that Purgings as mere evacuations have not been so successful.

A third Head of Remedies remains under the general title of Refrigorants. The particulars are acids & certain Neutralcs. That both are sedative many considerations lead to - particularly their experienced Efficiency in hemorrhages & in only bearing to sedative Power. Acids besides quench Thirst & therefore the Stimulus. by taking of the Dryness & clammy-ness of the Mouth, by resisting Putrefaction at least in the Parts viz if not in the Blood. by promoting Unreproachable Respiration they may be good. It is probable that vegetable Acids promote Sweats. That fresh Fruits are the best Excipients for acrid Ulcers In all putrid & inflammatory Fevers, acids are undoubtedly proper. In nervous Fevers their sedative Action is not hurtful. Like that of neutrals it probably occasions a Reaction of the Sensorium that determines to the surface.

Neutrals - What Powers they have as sedatives is still uncertain. In cases where the Movement of Blood is so violent as to threaten immediate Suffocation, a dose of Nitre might

This is a refinement that perhaps is scarcely admissible. Their Action in these Cases is perhaps the coaction of they occasion determining to the surface. This sedative

Power
accompa
We sha
divide
the not
of the de
adds...
Vinegar
Physica
See Pro
The Star
the Sun
We pes
sign of
of the m
the ec
some of
the 12
I round
as they
operate
to catch
the Sun
of Deton
Henia.
the int
Blast

Power is confined to a few of the neutral Salts. Many are accompanied w^t great Stimulus to every Part of System. We shall speak of Neutrals as Diaphoretic. I shall only observe here what they may be antiseptic in the Prime Vig. No not in the Blood. They are also Dunciatic. In affections of the Lungs, I have seen the Cough aggravated by neutrals & acids. For Instance in a late Writer on the Plague. He found Vinegar a useful Diaphoretic - but in weak People & the Critical he found it give oppression of Heart, Cough &c. The Preference in acids is given in Scars of Ulcerie. The Scarred & nitrous have particularly the effect of mortifying the Lungs, especially the former.

We proceed to the second general Indication, w^t is to restore Vigor of the Sensorium. particularly the equal Distribution of the nervous Power to the System in general perhaps to the extreme Vessels everywhere. We shall possibly equal some of the Remedies mentioned under former Heads, but the same Remedies may answer different Intentions. - I must arrange the Particulars under certain general Heads. as they relate to the general End in view. Some particularly operate by restoring the Distribution of the nervous Power to extreme Vessels. Others in restoring the Determination to the Surface of the Body, as this is the most palpable instance of Determination to of extreme Vessels from the Nervous Nervia. Deluents, Neutral Salts, Sudorifics & Emetics are the internal Remedies for this Purpose. Externally Blistering & Warm Bathing.

All
the now
ually
The 2^d
alby
was no
often
histo
called
A 3^d h
perhaps
Dilue
answe
Report
The Dr
ting to
as favo
from
W. weat
laton
tributary
constitu
most i
Vator &
addre

All these act partially by restoring more particularly the nervous Power to the extreme Vessels appearing especially in the dilatation to the surface.

The 2^d are such as especially restore the Tone of the arterial system. The Action of the Heart & Arteries should said was necessary to excite the action of the Sensorium. But often this fails for want of Action of the Heart & Arteries. This is to be restored by cold Bathing Tonics & other tonics called Cordials.

43^d Head of restoring regular Action of the Sensorium &
Interspasmatics - we are to consider these as of Oido-mendition,
Diluents - This is an Example of the same Remedy
answering different Indications - They were a Particular
Apathetic Region by irritating Acrimony in
the Prime Vig, in of fluids of the Mass of Blood & de-
ting too, if you pleases favourable to strivating dentar,
is favouring Secretion & Excretion.

from their favouring Excretion by Urine, Perspiration & sweat, they belong to this Head, as they carry on Secretion more fully to the extreme Vessels & thereby contribute to restore their action or at least obviate their constriction. If this can be done, by the Bulk of an inert fluid, it may be done w^t safety & advantage. Later when it is justly acknowledged the Basis of Dilatation & Stimulant Impregnations may be hurtful.

It has be-
note we
and the
to doing
lions ha
moving
mugm
red ha
as sec
seate
cultural
activities
the P
ating i
fession
species
ately
Part of
They o
Action
Fever,
appea
Exhibit
cially

Febr

193

I has been alledged that Pure Water is less apt to
act without Fluid than some Deluents of a more
solid Kind - That Water cures off soon by Excretion,
by doing so it answers the Purpose of opening Excre-
tions but is less fitted for taking off Acremony or
moving Lento. Physicians then have found that
impregnating Water with creed Matter is usefull,
and have they employed impregnations of farinace-
ous Seeds, as less apt to pass off & most apt to en-
courage Acremony.

Circular Salts - As antiseptics & antiphlogistic
ratives I have said they may be used; I have said that
the Dependancy is to be had from their refre-
shing Power, as they cannot be thrown off in suf-
ficient Quantity. And tho' they should, yet of little
fficacy, as the refrigerating Power seems immedi-
ately to excite a Reaction of the Whole, at least of
Part of the sanguiferous System.

They seem thus to have much Power in restoring
Action to the Extremes Vessels & therefore of curing
Fever, as depending on this. That they operate thus,
appears from the Heat on the Surface attending their
Excretion from the Sweat that often follows & par-
ticularly their obtruding Effects of cold & Non-Edormitious.

that
water
quietly
just
the
stomach
will
be
to know
and
action
prefer
these
1 South
2 West
3 North
that
The
officer
It is
cure
more
Harm
refuse
violent
the
F

that they act thus appear from the analogous operation of cold water. We might enter into curious Disquisitions of the extreme Vessels being as it were, the Instruments of Tension, of their Connection with the Sensorium, of this with the Stomach & thereby the Stomach with the extreme Vessels. This would give Illustration of our Theory of Fevers; but it is sufficient to know that Neutrals obviate Spasms of extreme Vessels & thereby I suppose Spasms are overcome by exerting Action to some Part of the sanguiferous System. This is performed probably by neutral Salts.

Three Questions occur here.

1^o What limits these may be carried.

2^o Where properly to be applied.

3^o What neutral salts are proper. As to the first we know that they are not always efficacious -

The greatest Advocates for them acknowledge them only efficacious in tertians &暑热病.

It is necessary to know what is the Effect. If they do not cure, but contribute to it. Why are not the doses increased more frequently repeated? I suspect they may thus do harm. A Hot fit found to a certain Degree only is necessary to remove a Fever. I have observed that by too violent hot fit, the Patient was dissolved in sweat & the Fever as far from Solution as if no hot fit at all.

138
prose
incon
of exec
Kieft
Does
d^a Ch
few C
inquir
diger
take off
Prang

I suspect that the constant use of neutral salts
would prevent that proper Degree of heat which is ne-
cessary for Solution of the Fever.

The Spanish Physicians according to Cloghamallidge
that from Experience it appears that inhibiting such
too soon prolongs Paroxysm. I conjecture here that
my Heat whether cold as refrigerant or hot as imme-
diately releasing the Surface will tend to this.

I imagine I have found the Reason of the Above
neutral salts here.

This leads to our 2^d Question of the Propriety of applying
when the cold fit is come on & 2^d by when hot.

1st Case when a Spasmodic Stomach, it may be
properly taken off by neutral salts. This appears in
Intermittents in wh^t I refer their chief Use to the Time
Exacerbation. In the ordinary exhibition of saline
Nuxures, it is a Placeto. If we would have effects larger
Doses must be employed.

2^d Choice of neutrals? A question undetermined.

Few Practitioners have Diligence or Capacity for
inquiring into these important Points. Sal Ammoniac
digestive salt have been reckoned most effectual - to
check Vomiting in Fevers we have employed saline
 draughts. What difference in one or the other & which

prop
the st.
have see
feld. I
Donaifor
they were
domina
startan
too far.
stimula
main in
recreation
Kather
real. The
Agueine
Reasons
Some say
on his o
had mo
clusive
without
are not
often
by pre

Febrer

196

appropriated to Intermittents, continued not known.
The Sp. & Mindereri as exhibited in general is furolosus.
have seen it used in prodigious Quantities without
feet - I only observe here that this is not ascertained
doubtless. That at present on an uncertain footing.
they were formerly considered as the chief Remedies by
Sydenham properly it reached their uses. But it is
certain that Sydenham & his followers did not go
so far, taking Sudorifics for every means merely to
stimulant, which may promote sweat. q Fevers in so termi-
nate in Sweat. Neglecting that the Advocates for
sweating are now deprived of the support of mortific
Water to be thus expell'd. I think that upon this gene-
ral Fact of Termination on sweat, we might take
Arguments for Arts promoting it. Many specious
reasons might be deduced.

Since Sydenham few Advocates for sweating Dr. Morgan
in his mechanical Practice has however alledged
that most Fevers may be thus cured, but not con-
clusive. for 1^o in Intermittents many Sweats
without final Solution. 2^o final Solution on fevers
are not in proportion to the sweat. Critical Sweats
often moderate, often Intermittents are aggravated
by profuse Sweats & their Length continued. To be omitted

so are
weak &
much
but on
what
done so
know
success
is consti
solidly
minded
machines
and the
Spirits
in the
fill. The
Tillorg
Institute
Means.
have con
it & the
of effect
Again
person

so are often attended w^t Sweats, that protract by disorder. Sweats which are apt to render Intermittents continued much more pernicious. This has been said of Dr Morgan. But on the other Hand we have his Testimony of curing all Fevers by sweating, & it must certainly go some length notwithstanding his Prejudices. I have known other Physicians that followed this practice successful. In the Age of Allopathy had we none to consider them many Facts occur. Some fevers absolutely require Sweat. The Point then is not determined. I think that of a Fever can be perceived approaching before Formation of Spasms sweating may prevent this & by restoring Determination to extreme Vessels may abate the Fever. We have Proof of this. The curing Intermittents by supporting sweat till the time of Accession. By such Means does Dr Morgan say he cured the most obstinate Quarters instances in Practice of Continueds cured by the same Means. It may be said here that the Fever would not have come on but from the Circumstances indicating it & the putability of the Practice we may suppose it effectual.

Again sweating may be admissible on a recent spasm. This appears from Experiments.

Sweat
Nature
markable
Practice
hang Dr
use for
and the
watering
tree of
hard wood
hairy
sweat
as of
sweat
that on
This is p
timonius
Baccharis
mehat
S. Cont
Bath these
produces
Vehement

Sweating will be found useful when from the Nature of Epidemics we know it to depend on a remarkable sedative Power. In Proof of this the unusual sweating in the Plague has been sweating.

Many Disputes - but we neglect the Objections that arise from Malad Ministrations of Sweating, we shall find the most happy cure of the Plague to have been by sweating - Deemebrook was most free in this Practice of late Cahr - & others late Practitioners have waited more for Nature but seized the first Opportunity of promoting this Tendency - Other Proofs of sweating in the sweating sickness. Many Testimonies of the usefulness as well as the Inefficacy of sweating - To determine here we must observe that in cases when sweating is most useful this is produced by force, that is by Inflammatory Stimulus, Load of Bed Cloaths, or without the sweating, Convulsion, Difficulty of Breathing, or the sweat partial, which at least protract, if not aggravate the Disease.

Continuance of the hot fit depends on Phlogistic Diathesis, whatever lengthens this has a tendency to produce this Diathesis, & therefore give more Dangers.

Chemism of the hot fit besides may occasion

topic
Seven
Cause
Vt like
wings
than
The E
state
to turn
should
done a
with
the De
then
Fender
A very
more n
most
I would
order
being o
to be pa
bases

topical Determinations of the greatest Danger in Fevers. The Urging of Sweats then requires great Caution. - My Rules here are that

1st When Phlogistic Diathesis or the Spasm necessary to this, urging Sweat is very insufficient. On the contrary when Spasm is formed

The Question of the applying of Sweat particularly relates to the yellow Fever of the West Indies. This appears to turn out fortunate only when it is Beginning to be removed. I am almost persuaded that the same thing is to be done as in the Plague. we must not urge it violently but note the Tendency when it appears. Many facts shew the Danger of urging Sweat too far.

When Symptoms of the H.S. fit are strong, our general Tendency to sweating is not to be encouraged, as we may exhort the H.S. fit that the Sweat will be purgative & more moderate would have been salutary. Topical Determinations are too to be apprehended from urging Sweat. would here give 2 dogmatic Rules. Where Diathesis Phlogistic evidently prevails is the Spasm depending on this, or indeed being obstructed from any cause, sweating perhaps is not to be pushed. M. L. Henot speaking of the bases for or against sweating, says see the Author's writings -

would
Before
Please
allow
sweat
but
by the
copy
sweat
hand
cheek
very
every
is bet
We are
after
to see
of ha
ridges
In th
tree
None
green
sweat
four.

I would then forbids sweating under any very violent Spasm.
Before Spasm is formed & especially when recent & when
Miasm & Contagion of Sedatives than Mortal, sweat is
allowable. In 1^d Perhaps the Disease may be presented by
sweating. In 2^d Before Spasm much formed the more safe.
but in 3^d when we know that the sedative Power will multiply
by Fermentation: or induce Delirium by Repetition of the
noxysms we would wish to employ sweating. The
sweating on these cases must be excited by the least Stimu-
lant, as Liquid Applications, bulky warm fluids that act
chiefly by Bulk. It is as necessary that sweat be not
very profuse, but moderately carried on. Consider and examine
every where to enunciate that a more full Respiration
is best, & that the Belly is not as degree of the sweat.

We may from our Directions find too why sweating is bad
after Blood-letting. Hence Sydenham's pronouncing U.S.
to sweating on the Plague was well founded.

It has been observed that a previous Bleeding not only
induces sweat safer but also purging.

In the late Plague of Marseilles it was a universal Rec-
tice-similares ventured on U.S. but commonly gave a
Vomit to clear the Purging Visc. If this did not purge they
opened the Belly, & then in the least effort of Nature promoted
sweat, on which the cure was effected. The previous Purgings they
found useful & this we may understand from the construction

of the
W^th
Part
table
that
to our
that the
Hand
Aggru
may
volim

In Fe
that's
sure
must
break
down
first

it to
face
the En
he per
with
Inflam
our b
The o

of the Vapors of the alimentary canal, being taken off thereby the dangerous accumulations in several parts obviate - As to the Degree of sweating not established. - Different Opinions. Diderot thought that he might for the Ease of the Patient allow sweat to subside & renew them again. But Sydenham says, that those sweats are very Dangerous. The subsiding was attended of appearance of Spasm & the Renewal attended of Aggravation of Symptoms. Sweats then, that the Patient may support them a sufficient time, should be moderate, violent ones for a short time have been often pernicious. In Fever there is an exacerbation in 24 Hours. Semagone that Sweats ought always to be continued till we are sure the next succeeding Aërsion is passed over & hence must be intended beyond 24 hours. The good Effects of sweating depends on its being equally determined to all Parts down to the Extremities of the Toes. Dr Chalmers of Carolina trusts more to sweating but takes especial Care to determine it to feet - If we wish not to apply general Stimulant sufficient for this, yet by particular Stimulants to Extremities the End may be obtained without the inconveniences he puts Hot Bricks to feed. This Author has presented us with a Difficulty. He insists that Sweating is useful in Inflammatory Diseases as Pneumonia. If he is right our Reasoning is doubtful of not false. The only Sec^d by at I can obviate it, is that as these

Bray
Hippo
wonder
wants
I sing
G. our
has bee
Milton
Parson
well
by N.
Span
But
Exiles
therefor
May 5
send
metre
by
Emet
Kee
pidge
all
ring
as on
the Br

Pneumonies may take an Intermittent Teppe, I would suppose them not Diopathic. Pneumonias but only accidental Determinations in true Fevers. This however wants further Confirmation.

I might enter on the Remedies employed for sweating, but less necessary as I have laid no stimulant Prepuce. Opium has been pretty universally the Sudorific. The active Part of Mithridate & Thoraac perhaps is Opium. In the Plague of Marseilles simple Opium & Laudanum answered equally well. As many Objections have been against Sweating by Narcotics as by Stimulants, however we explain it, Opium is reckoned here upon Phlogistic Diathesis.

But as Opium sweat by taking off Construction of the Extremes Vessels, this more than compensates for Remedies therefore may not such Sweats be useful in Spasms? My Practice does not determine this. Sweat may be rendered safer, if produced by such Remedies as operate now by taking off Relaxation of extreme Vessels than by Stimulating Head Vessels. Such as Neutral & Emetics.

Neutrals are not yet determined, never have been employed on the Plague: but Practice now shews that they are Sudorific of the least Stimulus & best fitted for avoiding the Dangers of exciting Sweat in great Hemiplegies as mentioned by Chirist. Let us then consider whether the Objections against Sweating that have arisen from

using
salt
emetic
De Hale
Hale
100 Gm
2 lbs
Volume
100 ml
Dose
Dose
as per
3^d Mo
surface
eaten
then
Fit &
Inflam
Inflam
men
Theor
Action
to be
The
Depo
& exp
Opera

using Stimulants, may not be remedied by using neutral Salts.

Sometimes - The present favourite Sudorific in Practice - Dr. Hales is the only famous Practitioner who opposes their Use - We must consider them as producing
1st Complete Vomiting

2^d As inducing Nausea without Vomiting.

Vomiting generally useful by cleansing the Stomach, so frequently the seat of Irritation in Fevers.

3^d Useful as the Operation emulges Spleen & pancreatic Ducts & Secretaries of the alimentary Canal, particularly useful then for obviating the Accumulations mentioned.

More Considerable Action is the determination to the surface & they certainly do as well as from acting on extreme Vessels as by the Exercise. That operate on these Vessels appears from Nature's bringing on fit by vomiting: also by their so frequently curing Intermittents. The Case is most hurtful when Inflammation on the Stomach or other Topical Deter- minations in great Degree. Often not effectual from their Effect not being sufficiently durable. If the action on the Stomach is necessary in curing Fevers to be suppressed some time, vomiting is improper.

The exciting too of Vomiting will occasion a protracted Depression, As appears from the Weakness felt afterwards, & especially from Practitioners observing that if whole Operation of vomiting is over before Accession of intermission

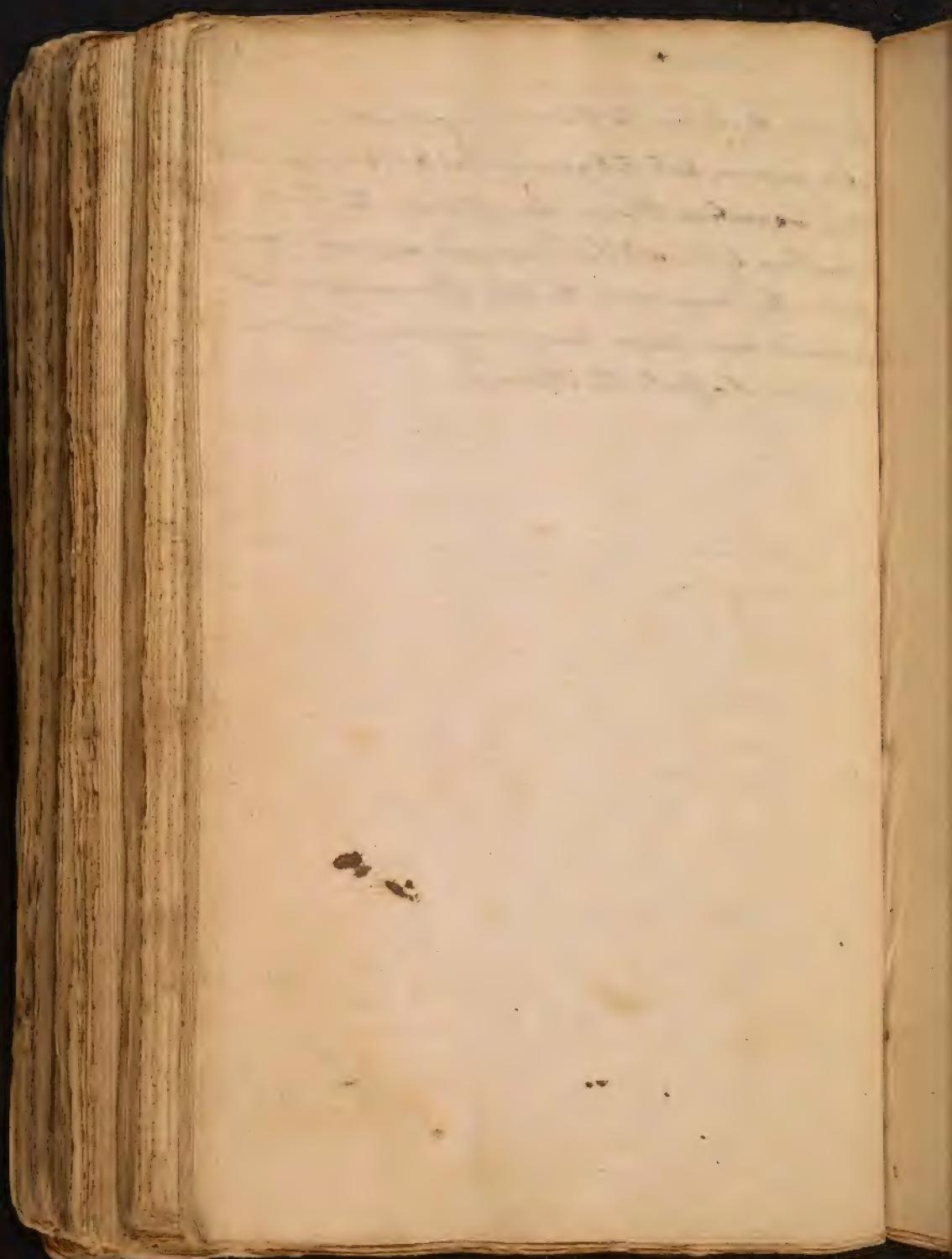
Paro
conta
Bonda
on ea
Broofe
sweat,
expla
tame
ces &
in cat
Dooey
withou
Pecopto
the In
we' me
propre
Dow
at lea
It ha
has p
Tacts
Wor
Other
this &
low.
has o

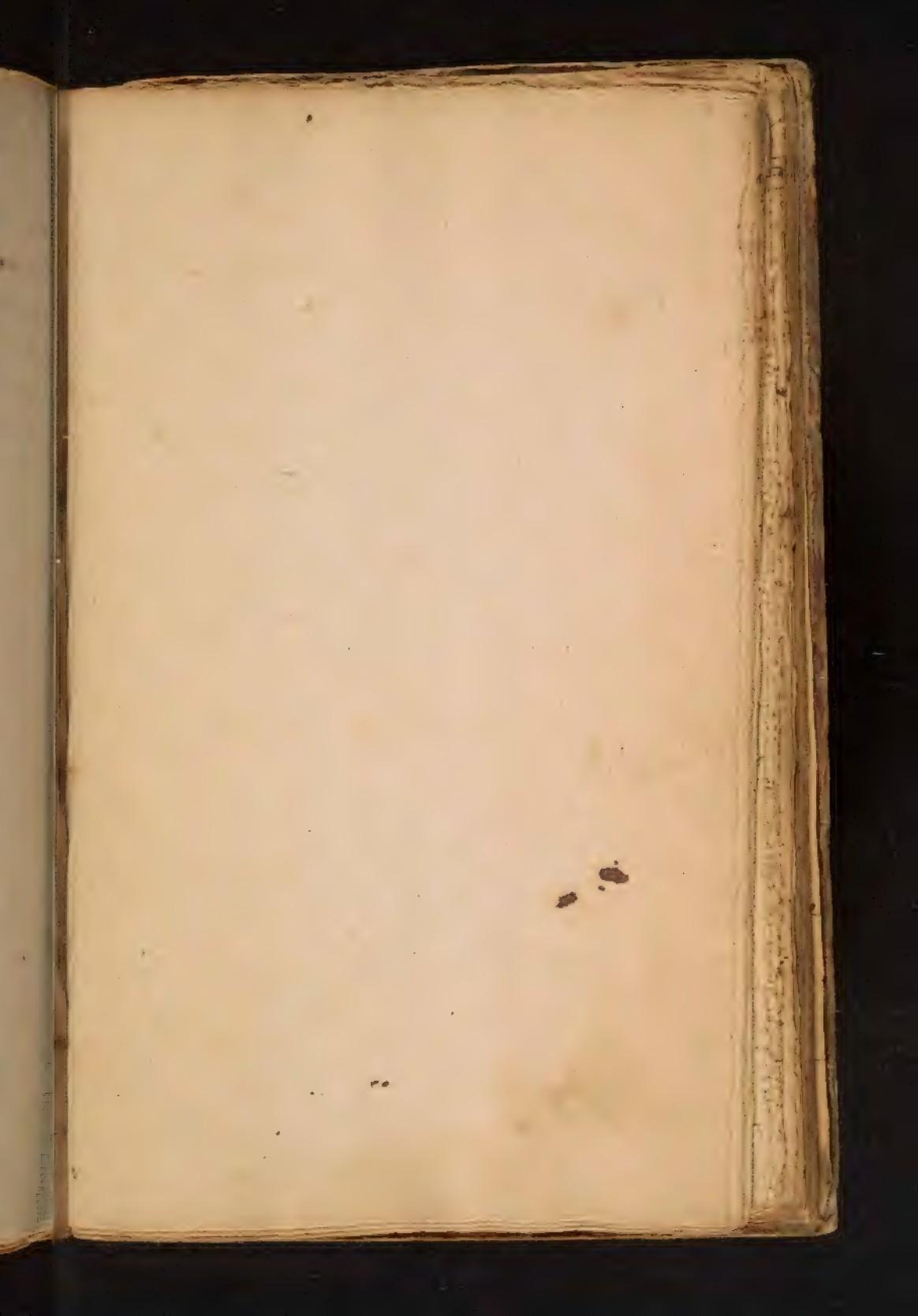
Paroxysm, this becomes more violent. This I can only explain from their inducing Debility.

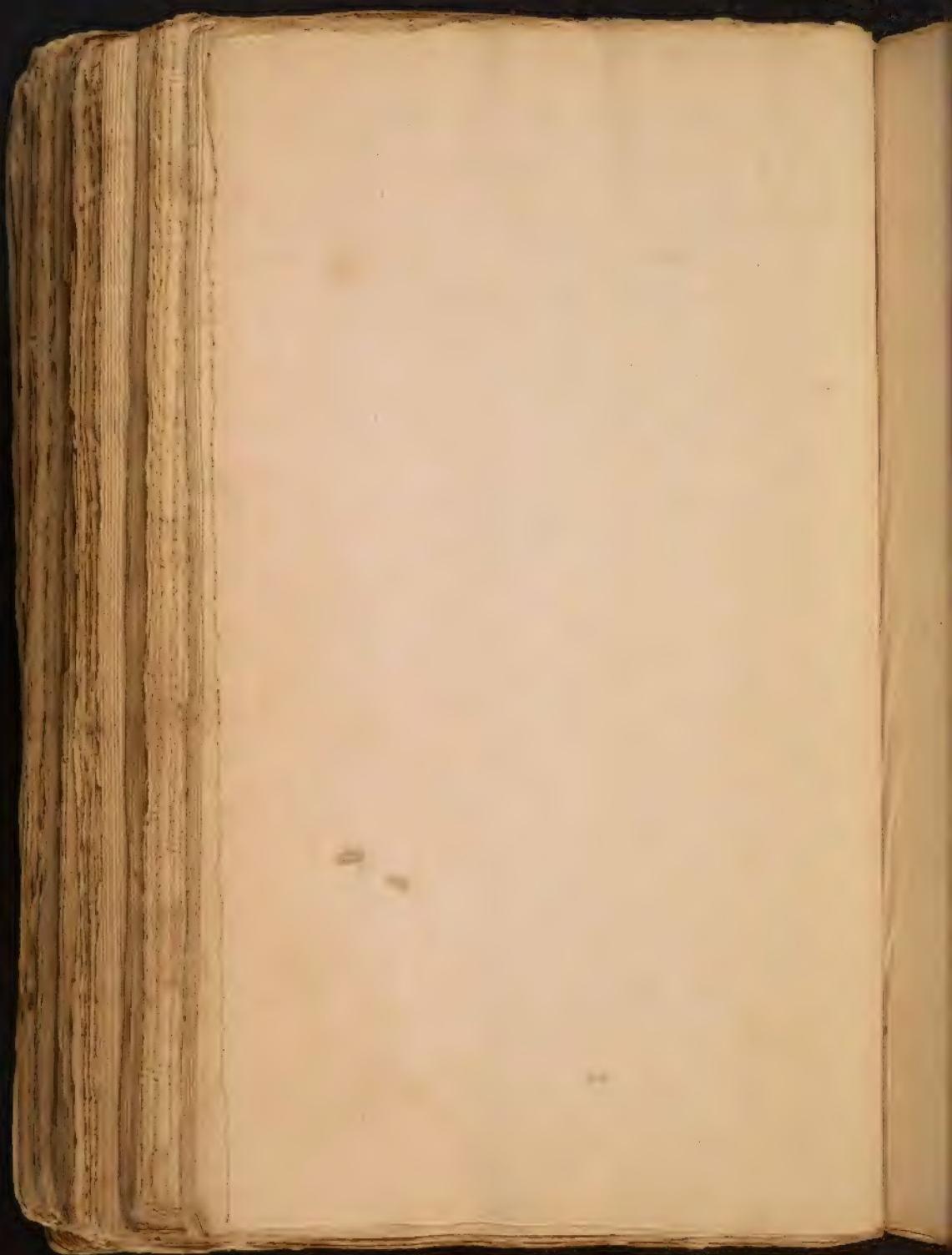
Besides evacuation & general agitation, Emetics act on extreme Vessels by Action on the Stomach - The Proof is that when only giving Nausea they often give sweat, or without this relieves the Fever. This is to be explained I think from their restoring Action to extreme Vessels. The action of Stomach not only produces Action in extreme Vessels of the Surface but also in extreme Vessels every where, & therefore a nauseating Dose of Emetic may obviate obstruction of the viscera without being applied to Intestines, but when for this Purpose we generally give much Doses that they reach the Intestines. As to the Particular Administration we must first consider the Time of the Fever when most proper to be given. It has been found in that a nauseating Dose even before the Fit has with sweating at least rendered the Fit less considerable often cured. It has been found that the Approach of a continued Fever has presented the Disorder. Dr Lynn has given many Facts in Proof of it - He supposes it owing to the mucus & Contagion being particularly lodged in the Stomach & thereby thrown out. But without raising Doubt about this Seat of Reasons or the Reasoning that would follow I say that Emetics are effectual when no Vomiting has occurred or other Means of expulsion & then we

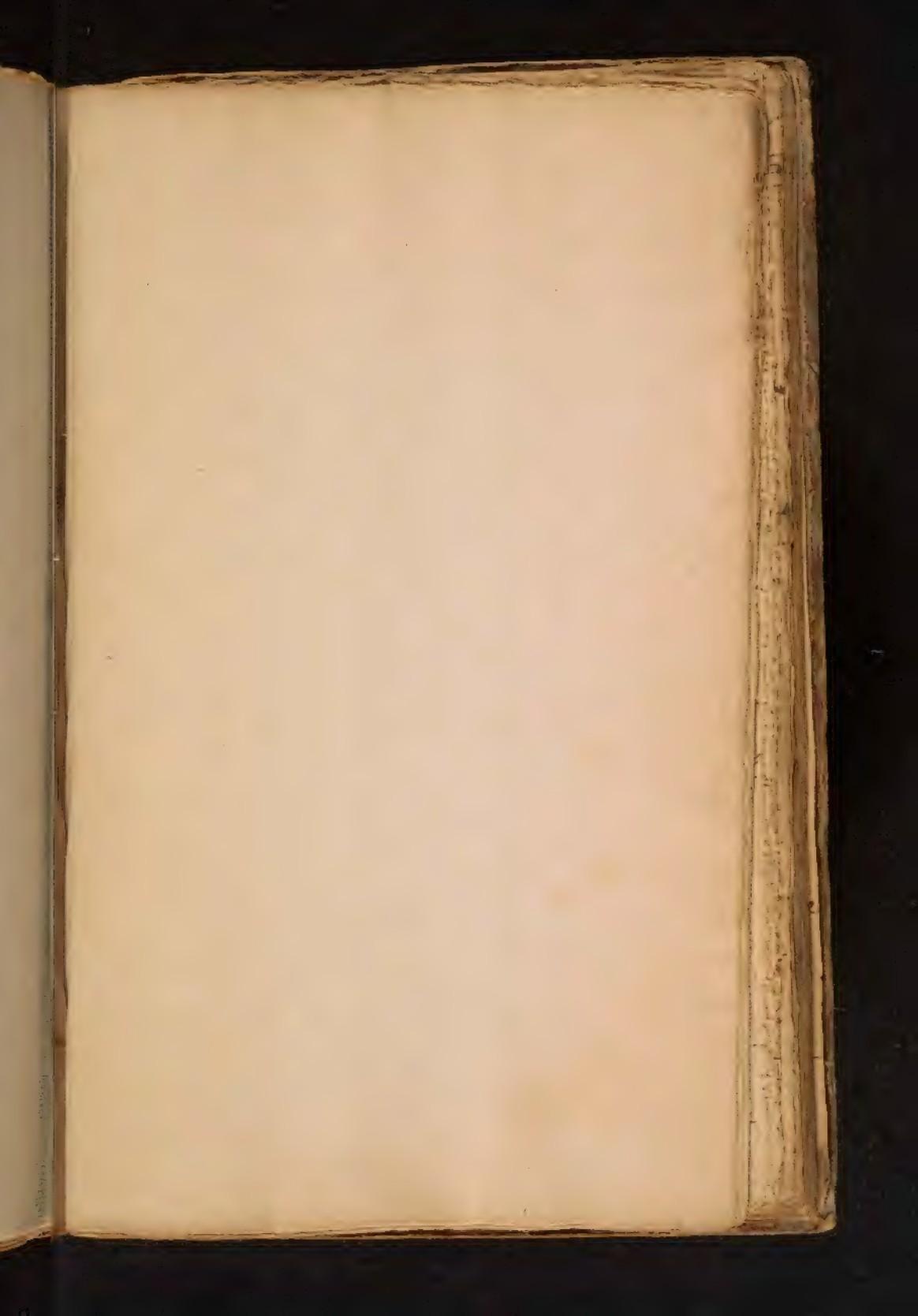
10th
Emotion
Art & Eng
The Pow
of Nati
may de
Time b

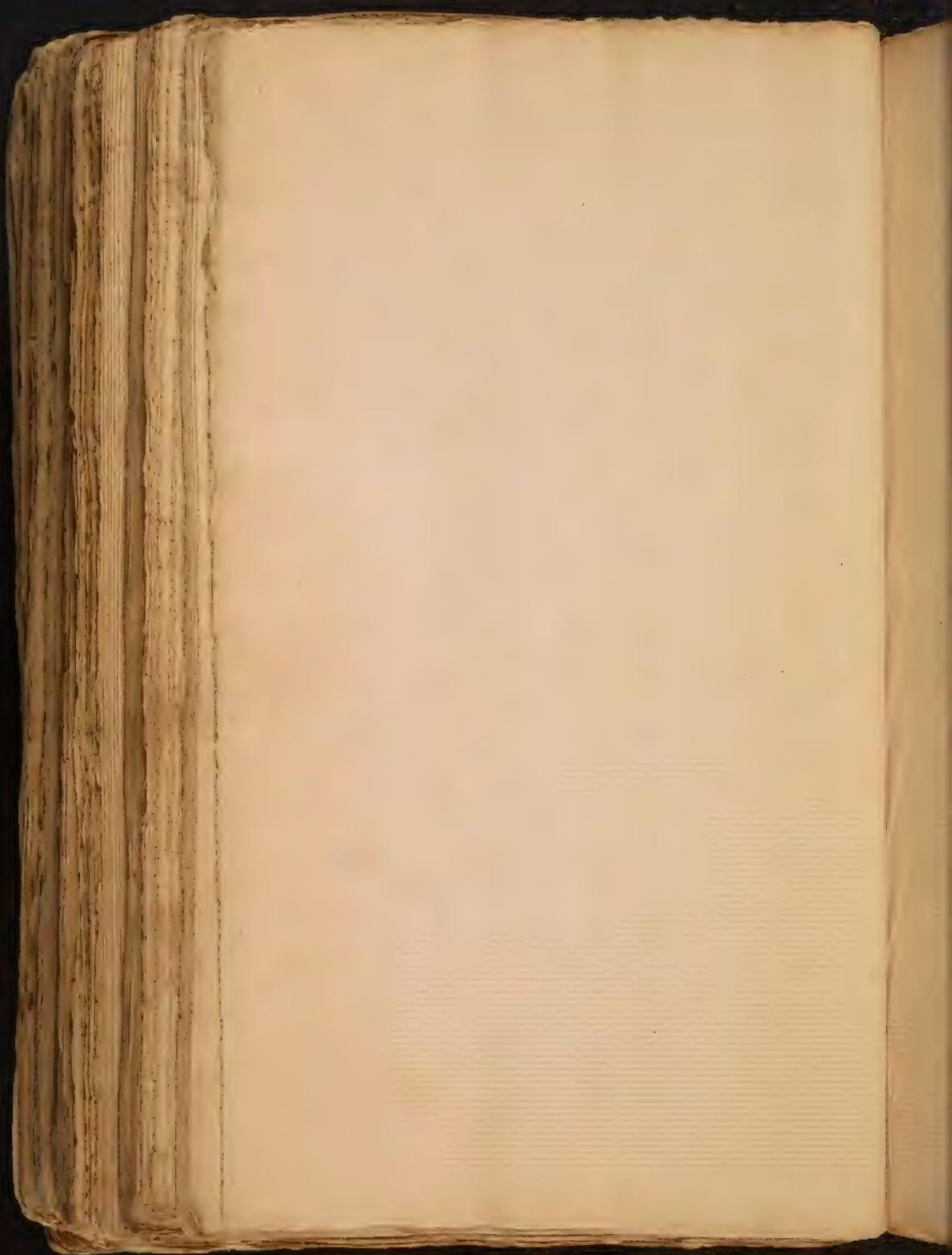
which refer to Action to the obstruating Spasms -
Emetics given in cold fits gives an end to it & brings on the
fit & by repeating this, we may often cure the Fever.
The Vomiting of the cold fit I have said appears a means
of Nature for bringing on the fit. No coming on late
may depend on a Spasmodic action necessary for some
time before it affects the Stomach -

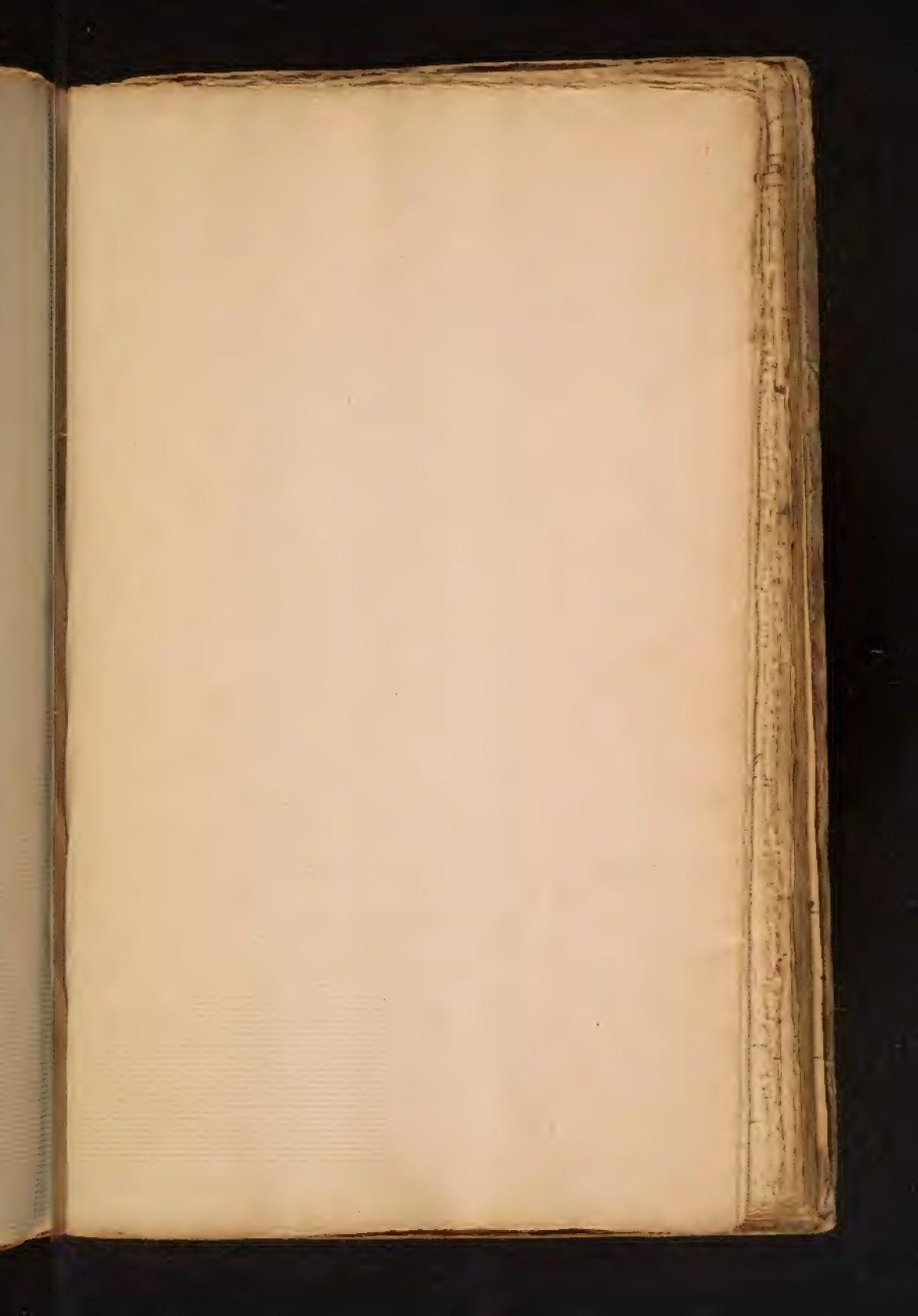


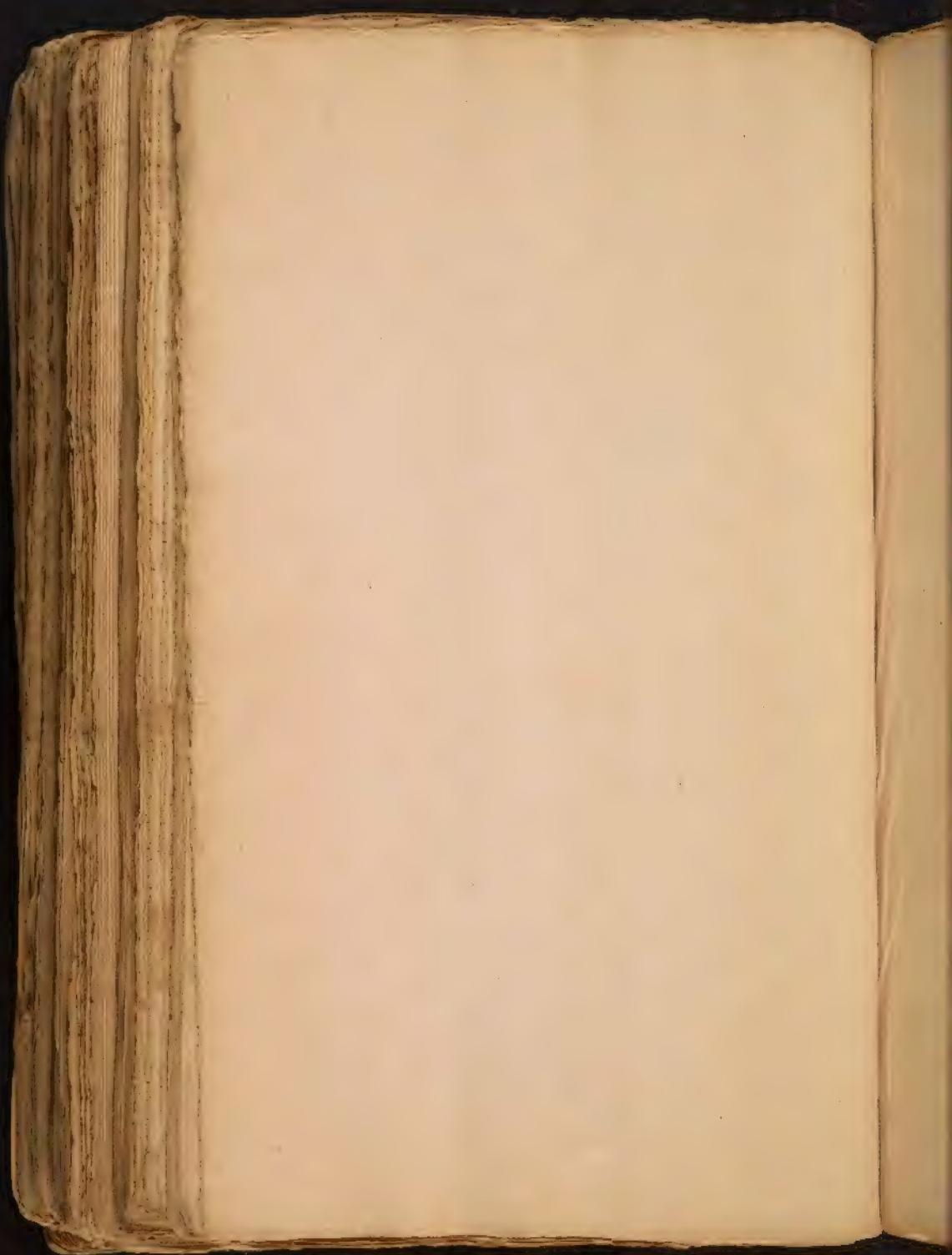


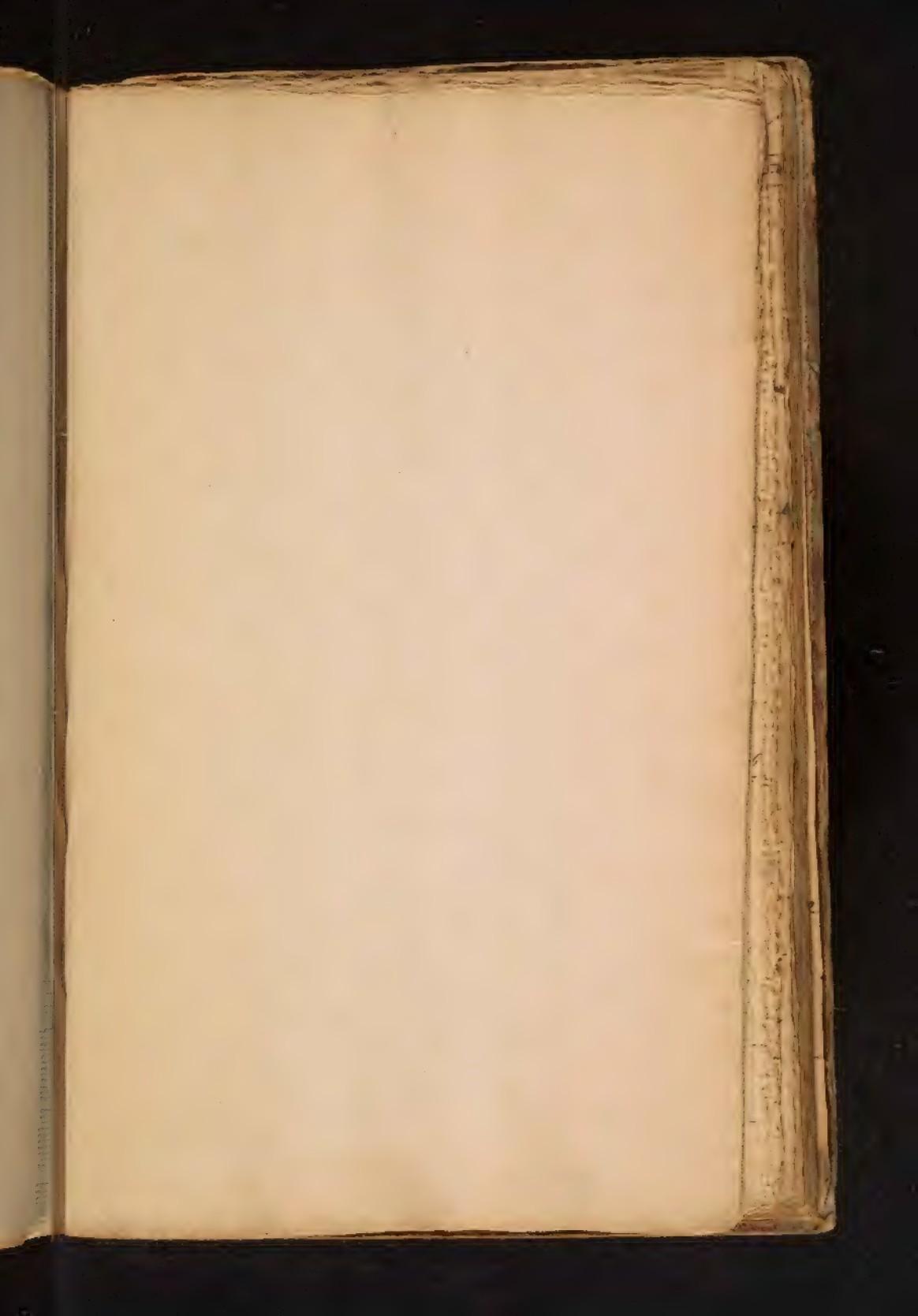


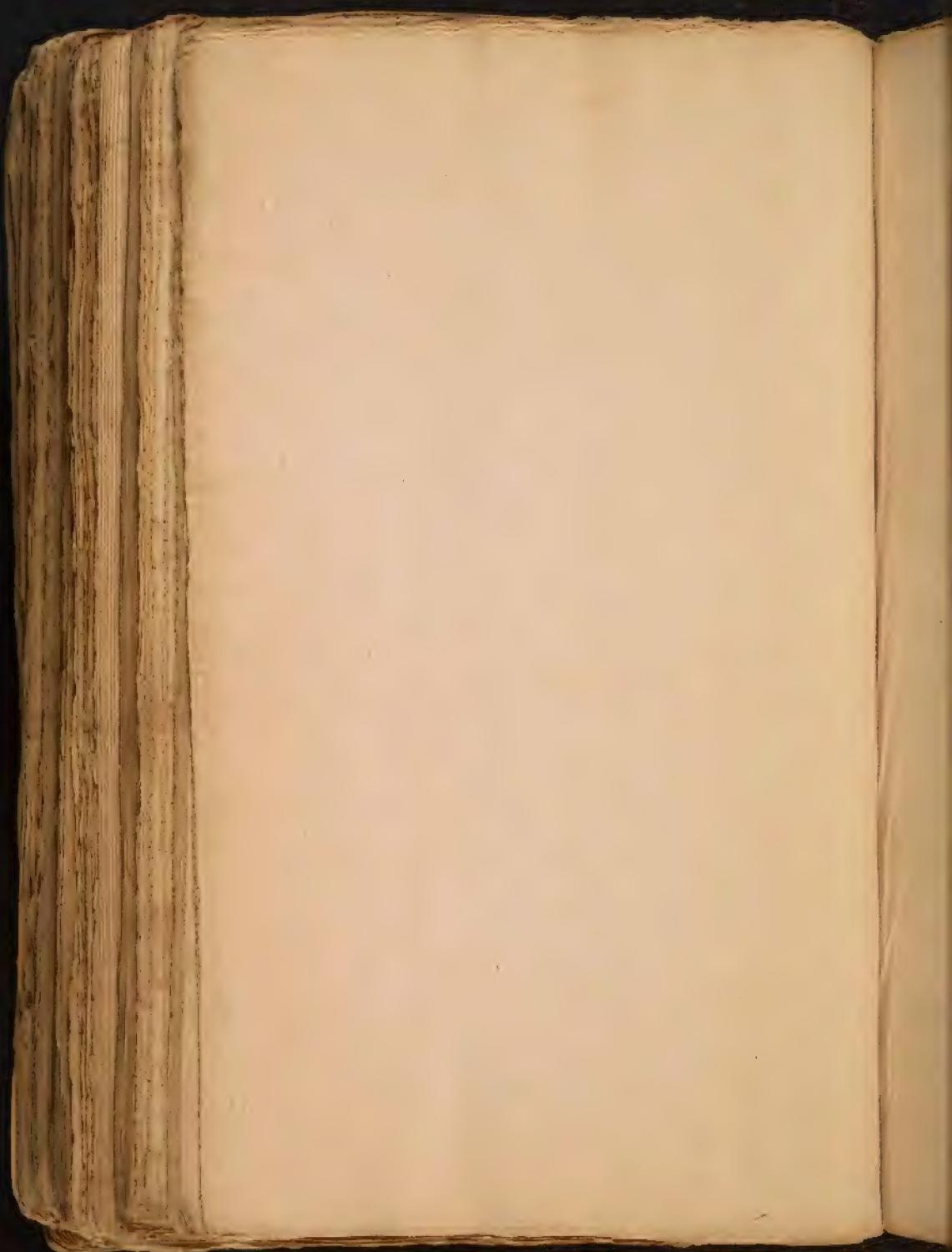


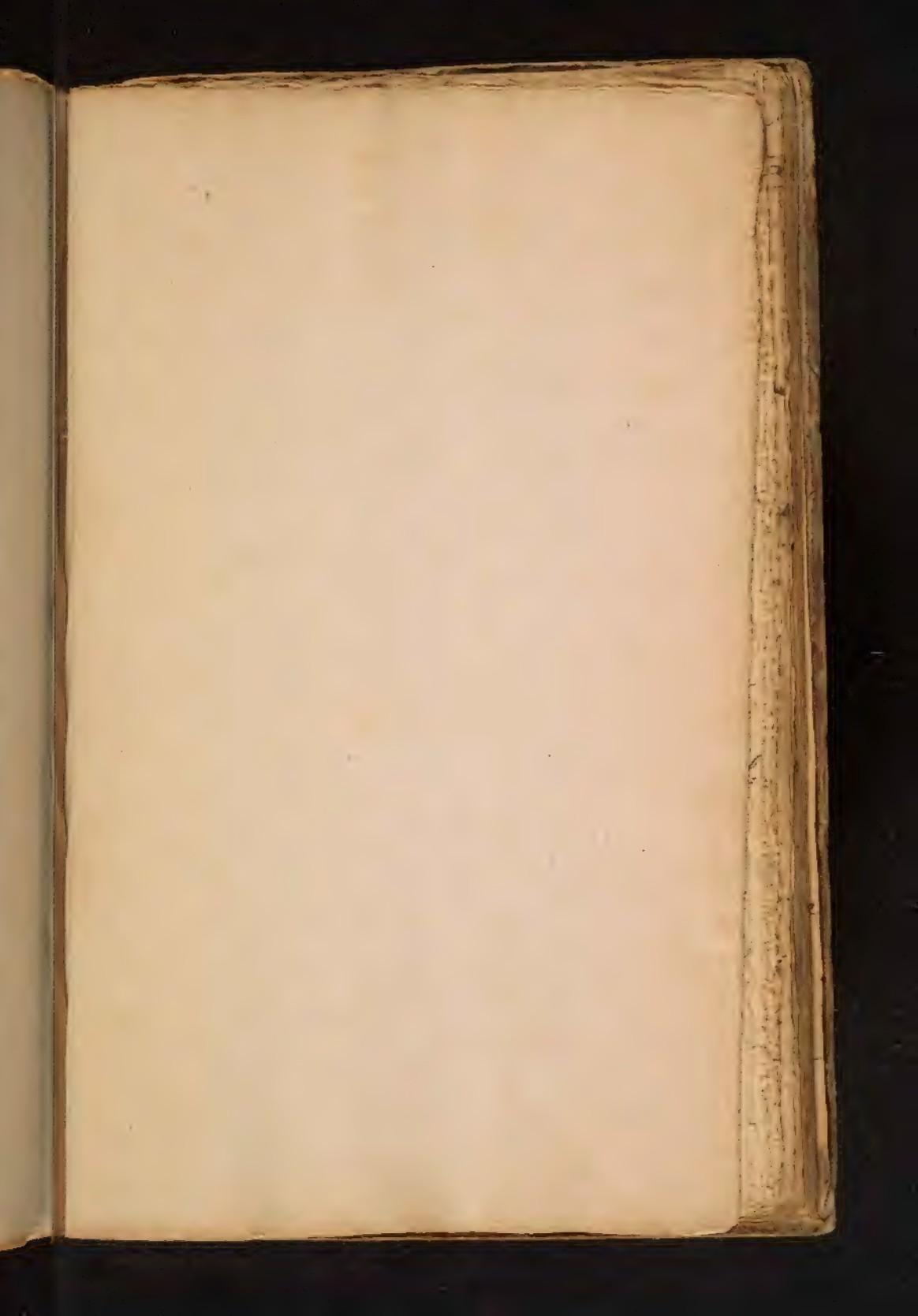


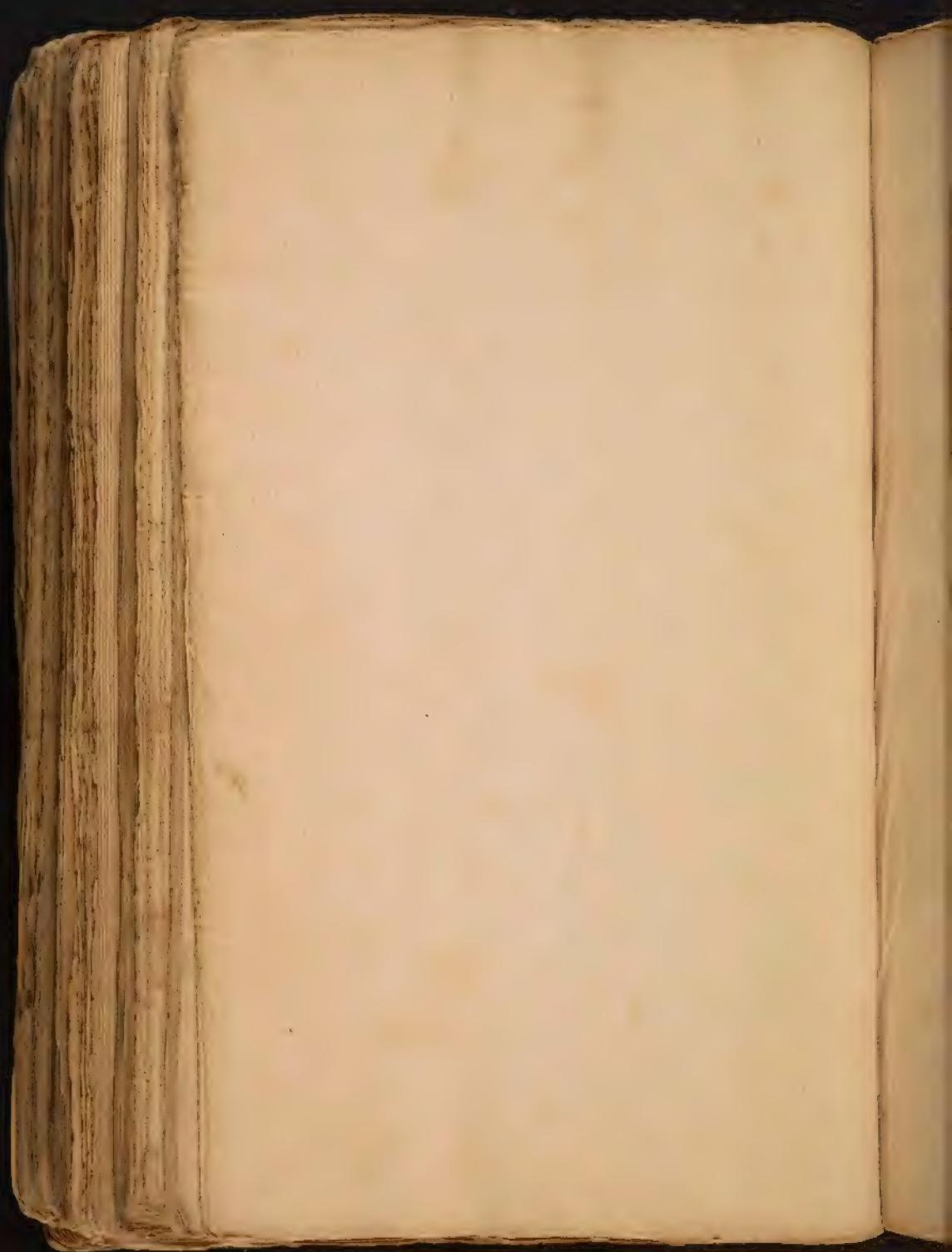


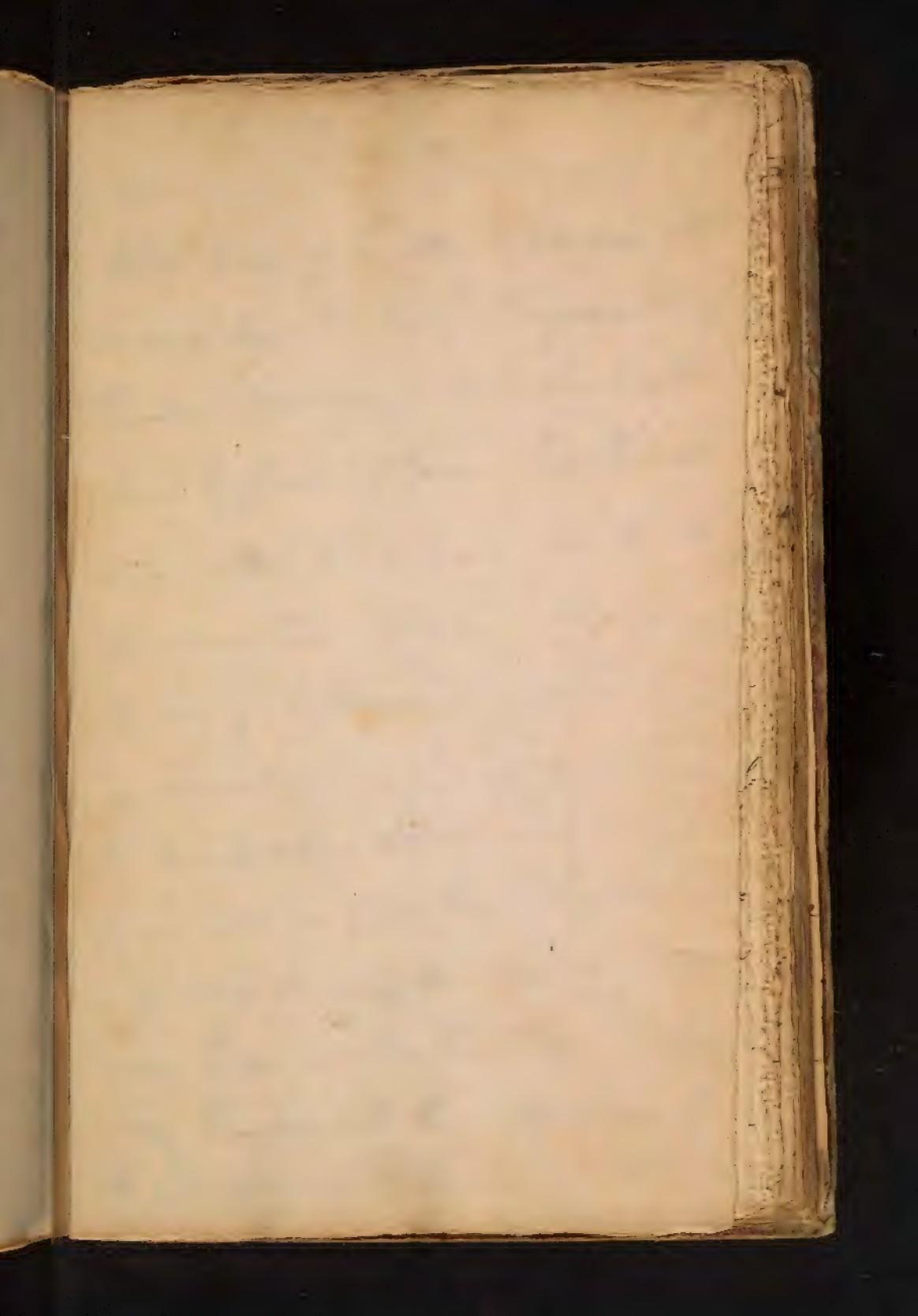












Wh

we

Gr
ove

spec

tend

for

the

ring

the

to t

in f

ap

lin

to

What kind of gentle Medicines Dr:
we employ? In ^{the} beginning of
Fever vomiting is to be prohibited
especially if no Inflamm? Diathisis at-
tends. After Favers have continued
for some time they are left safe upon
the Air of Inflamm? Congestions happen-
ing sometimes in ^{the} progress of Favers.
The nauseating Medicines only are
to be used in these Cases. I am happy
in finding several Authors of Credit
agree w me in this Practice. Vomi-
ting therefore shd. be continued only
to ^{the} beginning of Favers.

J

ing

the

is

me

by

John
Lom

ma

Pou

time

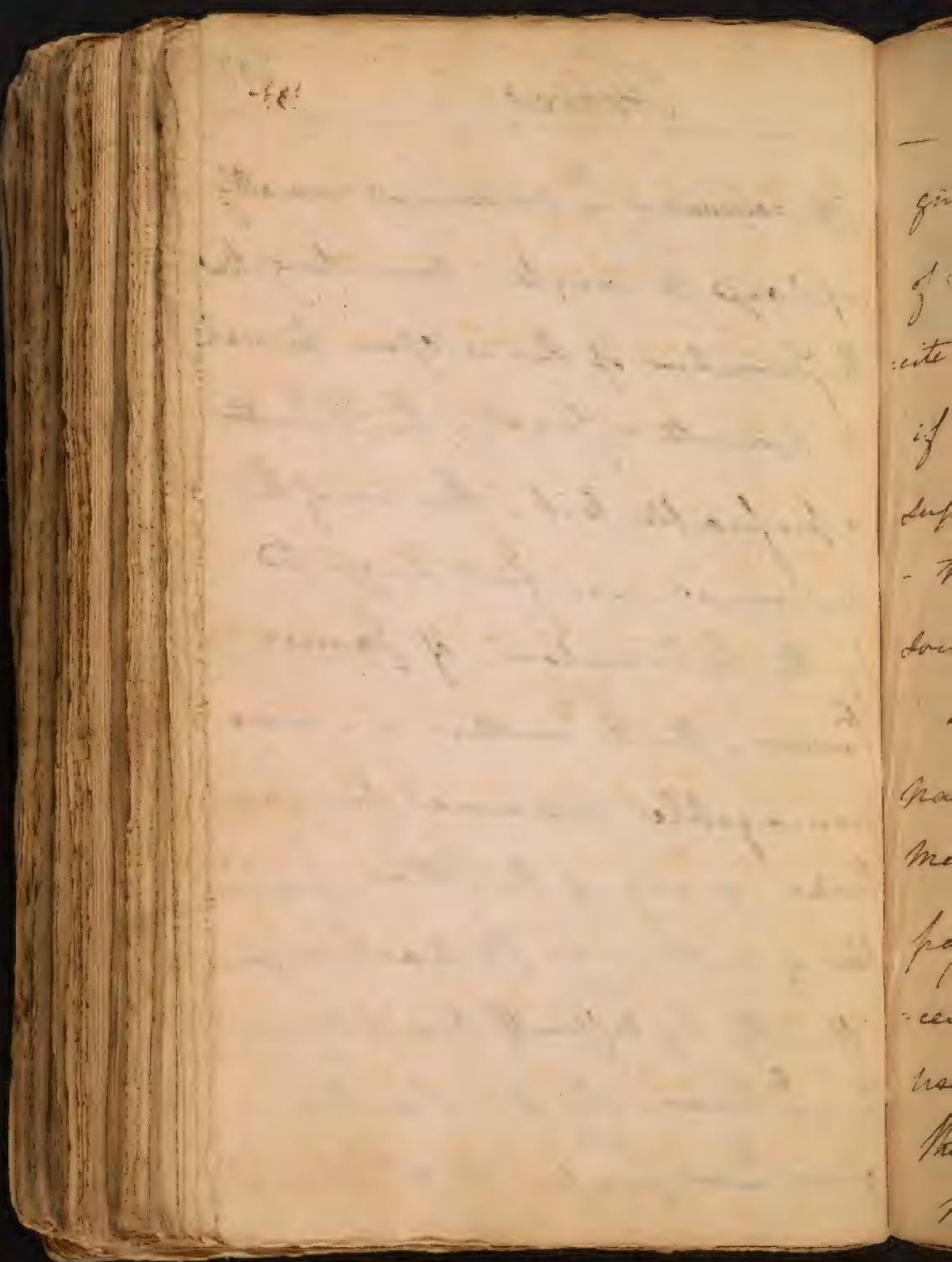
diff

th

w.

gi

Opium is a medicine usually
employed to excite vomiting. But
the stimulus of this is often too weak
to promote a sweat. The F. Mithie
is preferable to it. The use of this
medicine was first suggested
by the Introduction of James'
Powder. The F. Mithie is a more
manageable medicine than James'
Powder, or any of the other prepara-
tions of Antimony. It has been given
differently by different Practitioners
w^{ch} is ^e Reason why it is sometimes
given th want success. we sh^t always

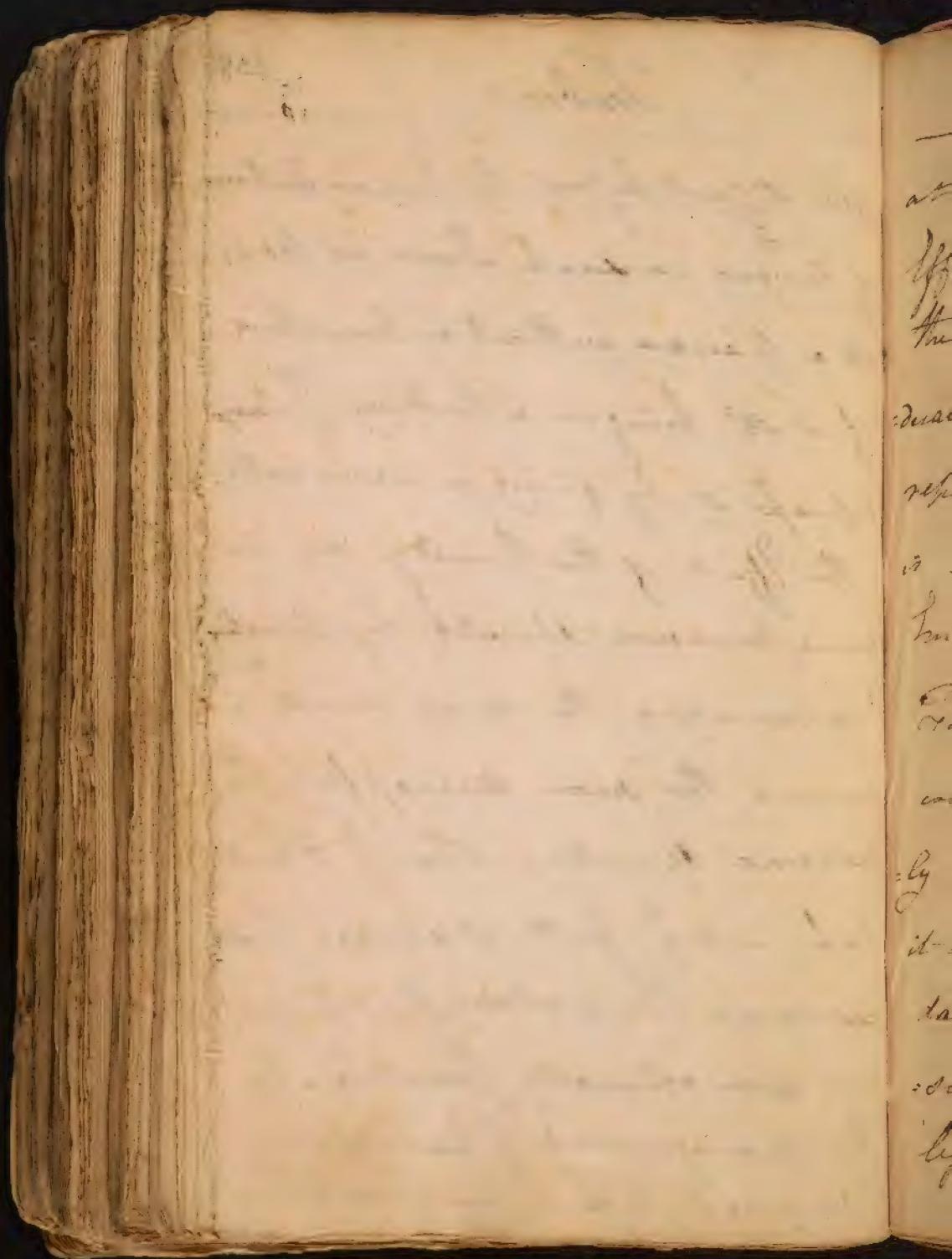


give it just before the exacerbation
of Fevers in such doses as to ex-
cite a nausea without a vomiting.

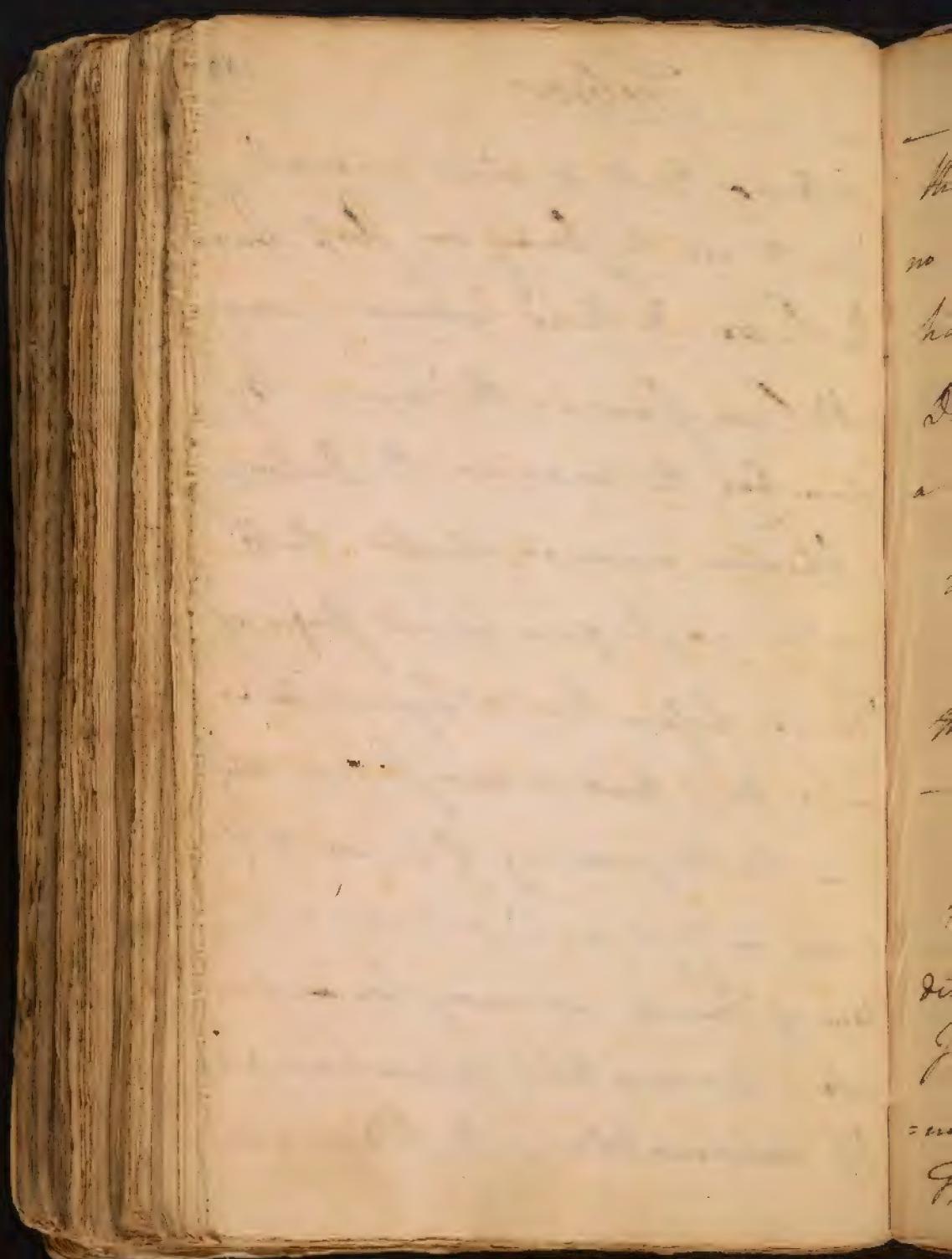
if it sh^d: bring on a purging. Always
superf^s it by giving no warm water.

- the effects of this Remedy are in
some measure abviated by promoting
a vomiting. the more severe y
nausea the more successful ^{of} y
medicine operates.

When ^e I smelt
paper into ² Gutt^s it always pro-
duces some Irritation that provo-
kes more especially sweating. By
this Management I have often
procured a terminations of Fevers



at once but its most general
Effects are to bring on sleep - lower
the Pulse - & thus induce consider-
able Remissions in the Fever. By
repeating the Medicine the Distemper
is likewise rendered shorter. The
Tincture may be given in all stages of
Fever before mortal symptoms
come on, but it does service chief-
ly in the beginning of Fevers & if
it does no good on ^{the} first two or three
days of Fevers we may lay aside
it. Purgative Medicines are
less serviceable in the Phlegmatic



than in those Fevers where there is no Inflammatory Diathesis. However I have found it useful in Inflamm? Disorders, & would recommend a Tryal of them to you in such Cases.

We come now to treat of external Medicines ^{which} are used to promote the excited state of the Person in ^{the} heat - These are Plasters & warm Bathing ~~& cold water~~

Plasters - most of Practitioners disagree about these Remedies.

I shall not discuss the various Opinions entertained concerning them.

They stimulate & excite a

102

is

wh

pro

in

or

-gish

ho

an

tin

an

pro

che

the

considerable Inflammation, but this
is topical & don't extend to the
whole System & therefore frequently
produces no quickness of Pulse unless
in Persons of very delicate Habits
or those who are subject to a phle-
gistic Diathesis. But, ^{even} in these Cases ^{it}
the advantages obtained by the Vaccination
amply compensates for any Stimula-
ting powers they exert. We cannot
acc. for the success of Blisters in rases
from their Stimulus. They operate
chiefly on the vessels on the surface of
the Body. The fluid is a contained

me
pa

to
he

en

of a

Wa

rur

all

free

in

dr

K

m

membrane & any stimulus to one part is easily communicated to the whole. The effects however produced by Plasters tend greatly to cure Fevers. - In the Beginning of Fevers we shd. be cautious in using Plasters, Altho' I think we are apt to run to an extreme in this Rule. in all Fevers where the Laxative power prevail, Plasters are more useful than in those where the Stimulating prevail.

Dr. Hayham forbids them in Inflammations of the Liver. But I think they may always ^{be} used with Advantage in

al

an

In
the
-rat

tim

of
be

:ma

the
Dis

: m

K

G

Fevers

all Inflamm? Diseases when they
can be applied near to the seat of
Inflammation. D^r Haen supposes
the stimulus of Blister to be very gene-
ral, altho he acknowledges at ^{the} same
time that they diminish the heat
of the Body, & approves of their
being applied in topical inflam-
mations. D^r Pringle has confirmed
the unusefulness of this Practice in his
Diseases of the Army. D^r Lind recom-
mends blisters almost universally
& he is an Author of great credit
& veracity. He uses them wth the

ut

on
of

for
the

part
the

-

of
who

pro

of a

con

th?

fun

utmost peace in all Fevers from
Contagion. See the remarkable acc.
of these fevers in his Treatise on
~~Fever, & other~~ Infection. Some suppose
Cantharides dissolve the blood Vessels
therefore hurtful in putrid Disease,
but this I deny, for ^{the} quantity
of Cantharides taken into ~~the~~
blood cannot be equal to ^{the} effects
produced upon it. Besides ^{the} experience
of Lind - Sturzell & Rivierius all
confirm this ^{of} usefulness. great care
sh. be taken to avoid Spanquines in
Fever, & this is to be done by not

say
long
to a

in t

is te

mate

or

to

by t

rea

- othe

J R

to

Fevers

215

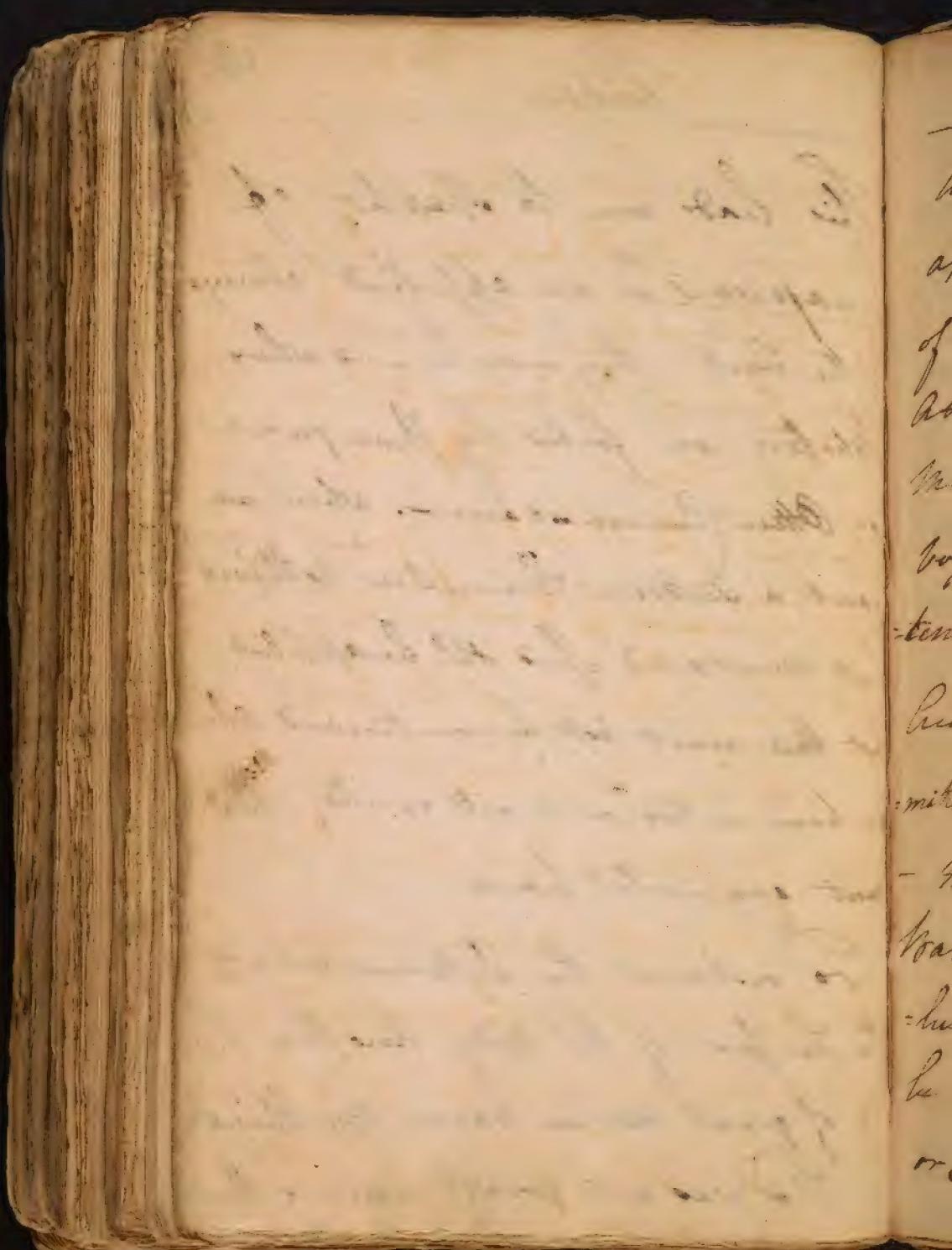
suffering the Volisters to lie on too long. we shd. likewise be careful to avoid giving the patient ~~con~~pain in drying the Volisters.

The best place of applying Blister's is to the Head & Back, from Inflammation being so frequently seated more or less in those places. They are not so useful when applied to y^e lower Extremities Altho' the vessels appear to want to be excited there. instead of applying them to the Ankles I think it would be best always to apply them to the Thighs. -

The
lyn
to
too
or
was
but
but
an
more
the
dy

This leads me to speak of
Lynapisms ⁱⁿ are applied always
to the part. they may be used where
Whisters are forbid by Granaries
or Other Circumstances. When we
want a sudden stimulus nothing
but Mustard - has th^e been applied,
but this must not be continued above
an hour or two or it will excite the
most exquisite pain.

To restore the Determination to
the Surface of the Body Rinother Rem-
edy of great use in warm Bathing
- This was used greatly among the



Fevers

217

ancient, but in modern times it appears to be laid aside. Dr. Gilchrist of this Country has recalled the Attention of Physicians to it. see the Medical Day, & his Treatise on Sea voyages. The Practise I grant is attended wth many Difficulties, upon this new fermentations of the lower Extremities have been substituted in its Room. - This has Advantages above a warm Bath. It excites a more uniform Stimulus. It disturbs the Patient less. & may be continued much longer even two or 3 hours. These fermentations are

he
of
go
for
for

Abt

to

Can

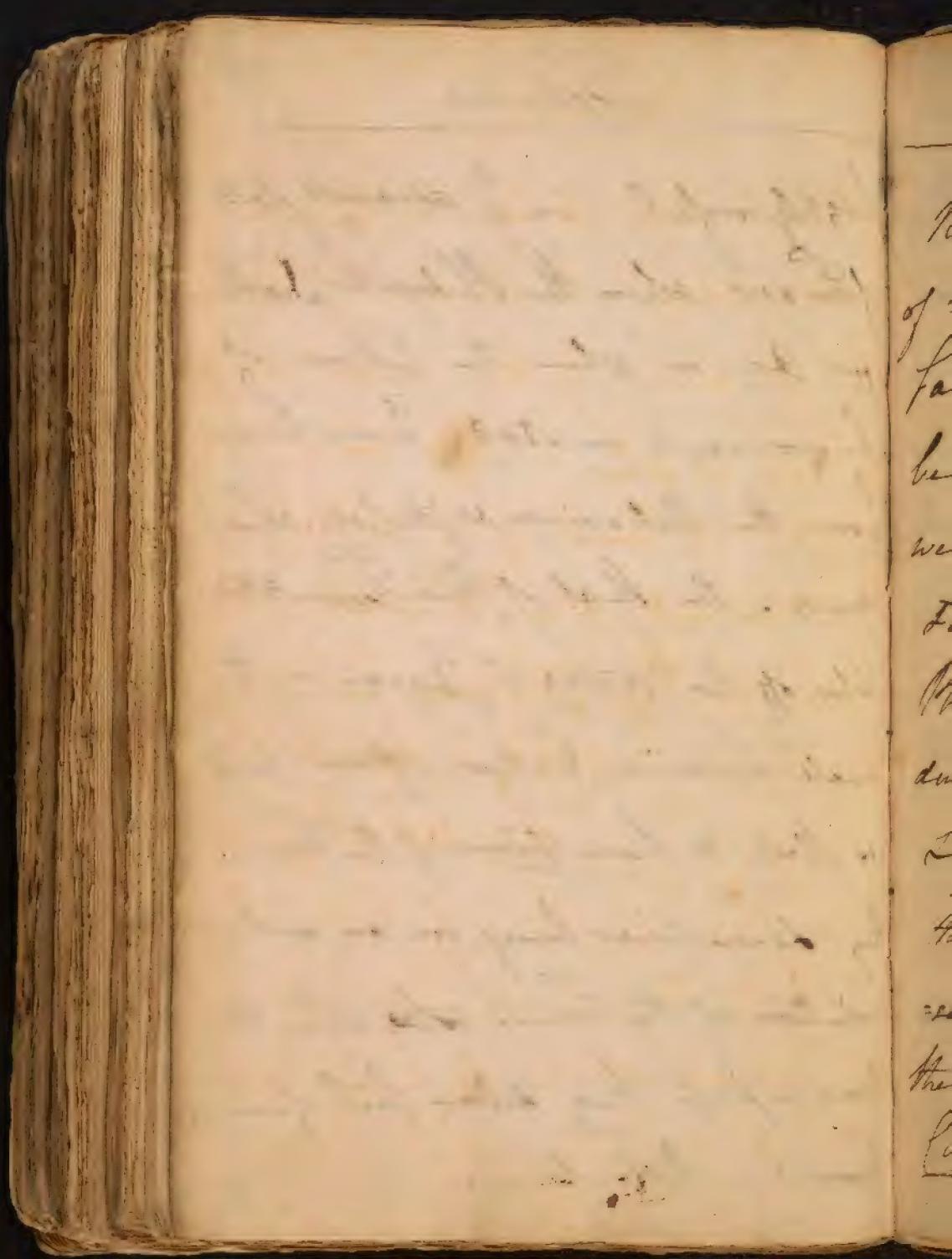
ces

they
for
pro

Can

highly useful in ^{the} advanced state
of fevers when the Phlogistic Diathesis
goes on, or when the return of
Feverium is resisted ^{as we know}
from the Delirium & Fervor which
attends. the heat of these fermentations
takes off the Atonia & Spasm in the
small arteries & thus often produ-
ces Sust & Remissions of the Fever.

They sometimes bring on an entire
solution of the Fever. ~~when they~~ when they
provoke Sust they seldom fail of curing
Fever in a little time.



But in order to excite the vigor
of the System the Action of the
Sanguiferous System must like-
wise be excited when it is too low or too
weak. The Heat of the hot Fitt we
said depends upon ^{the} presence of the
Phlogistic Diathesis; a want of a
due Degree of hot Fitt is attended w/a
Loss of Force in the Arterial System.
This occurs chiefly in putrid Diseases.
The Medicines proper to excite
the Action of the Arteries are
Cold & tonic Remedies.

Gr

de
me

of
fore

pa
we

a

F
in

in
an

O

Cold tends to excite the sensibility, we see it bring on Inflammations, very well know it to be the chief Cause of the Phlogistic Diathesis. It is therefore highly useful in Troubles and putrid Diseases. we apply it in two ways 1st by cold Drinks, or 2^d by cold Air or cold water applied to the Body.

Nature leads to cold Drinks by Instinct in all Eaters, warm Drinks were introduced only by Reflection and Art. But those who are divided in their Opinions concerning the use of cold

D
D
in

1
far
Lau

Clu

2

La

Lau

3

Ne
the

2

Feveres

Drinks. I shall not enter into their Disputes, but briefly point out ^{the} Cases in w^{ch}: they are hurtful & useful.

1st: Cold Drinks are hurtful in all Cases of Inflammⁿ: Favers, or such Favers as occur in cold Seasons or cold Climates.

2nd: Cold Drinks should be employed with Caution in the beginning of all Favers.

3rd: They are highly useful in all nervous & putrid Favers especially in their advanced state.

4th: In all Autumnal Favers or the

Fra

-m

3:

tin

Lo

b

f

ur

like

has

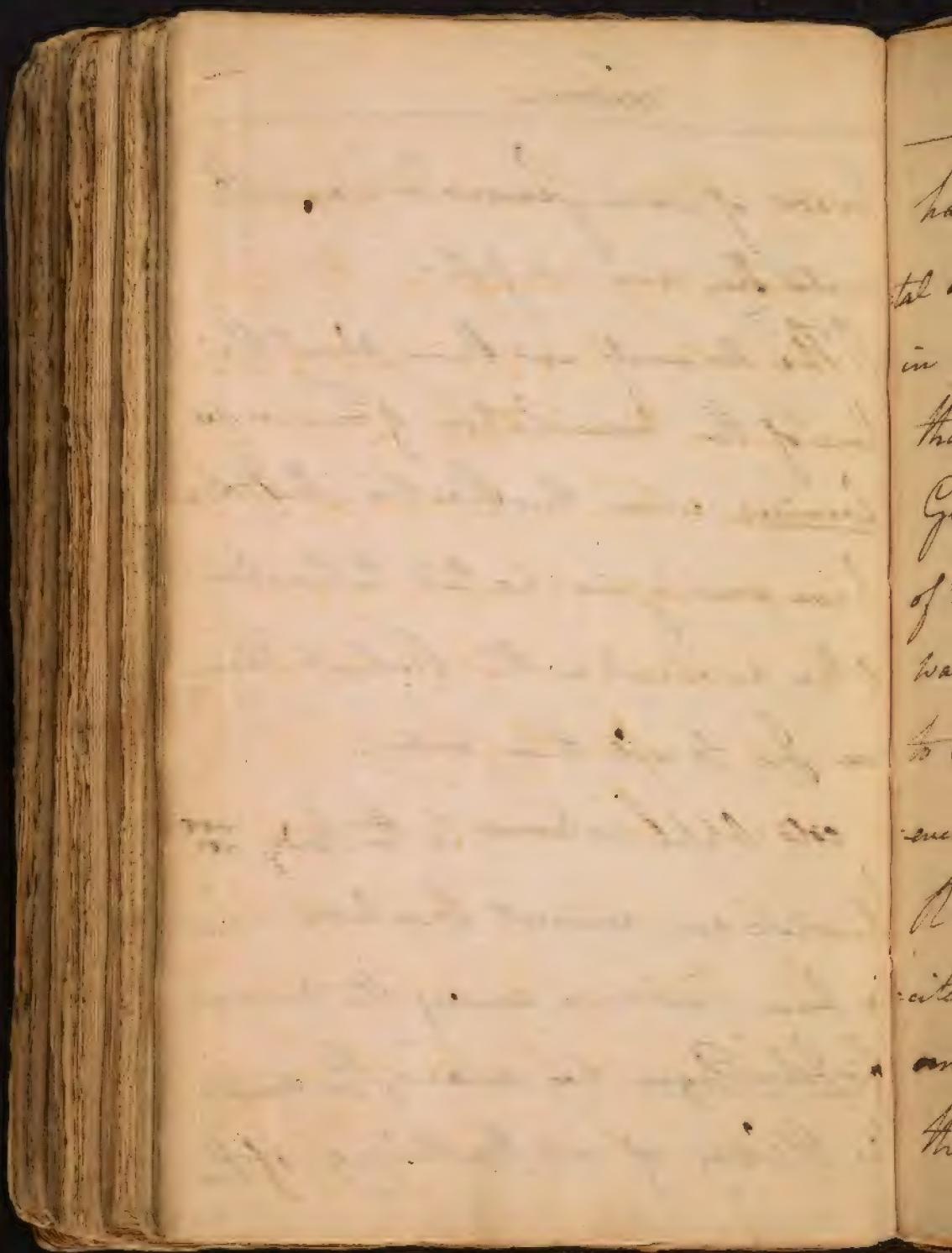
for

tin

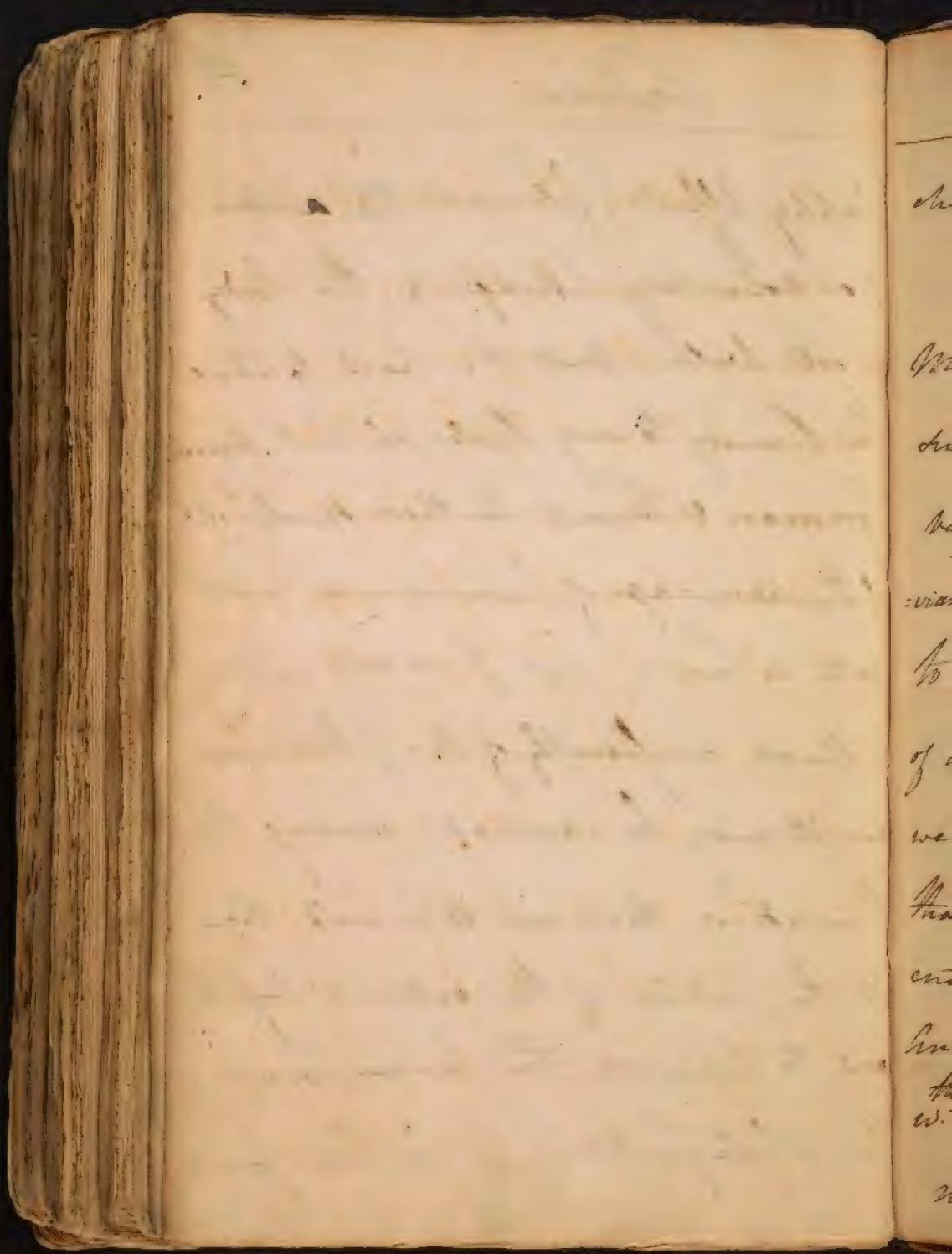
Floors of warm rooms & warm flates
make them are useful.

3^o: The ancients used them about the
time of the exacerbation of Fevers. see
Lomius upon this Practice. The Italians
have greedily imitated the Practice
of the ancients in this Respect. They
use Jus to cool their water.

Cold Applications to the Body ~~is~~
is likewise an ancient Practice, but
has been laid aside among the moderns.
Sir John Floyer has many Instances
in his History of cold Bathing of the

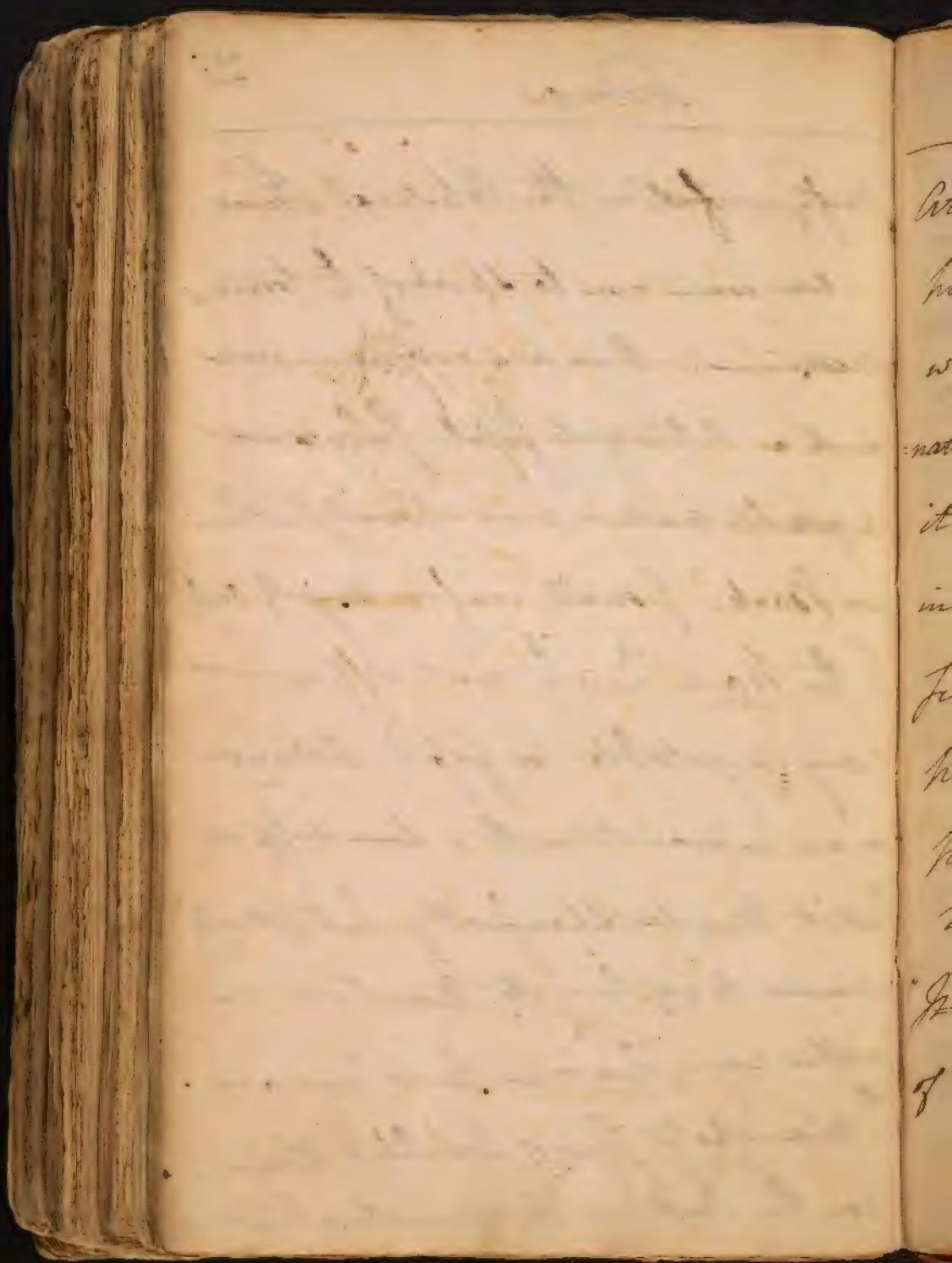


happy Effects followed the accidental or voluntary plunging the body in cold water. But it is hard to reduce this Remedy to any Rules of Art. several German & French Authors speak highly of the Advantages of Immersing in cold water in Fevers. but I cannot pretend to speak confidently of it. I think however it may be ranked among the Remedies that are to be used to excite the Action of the extreme Vessels, and to promote the tonic power of the whole System. It has been found



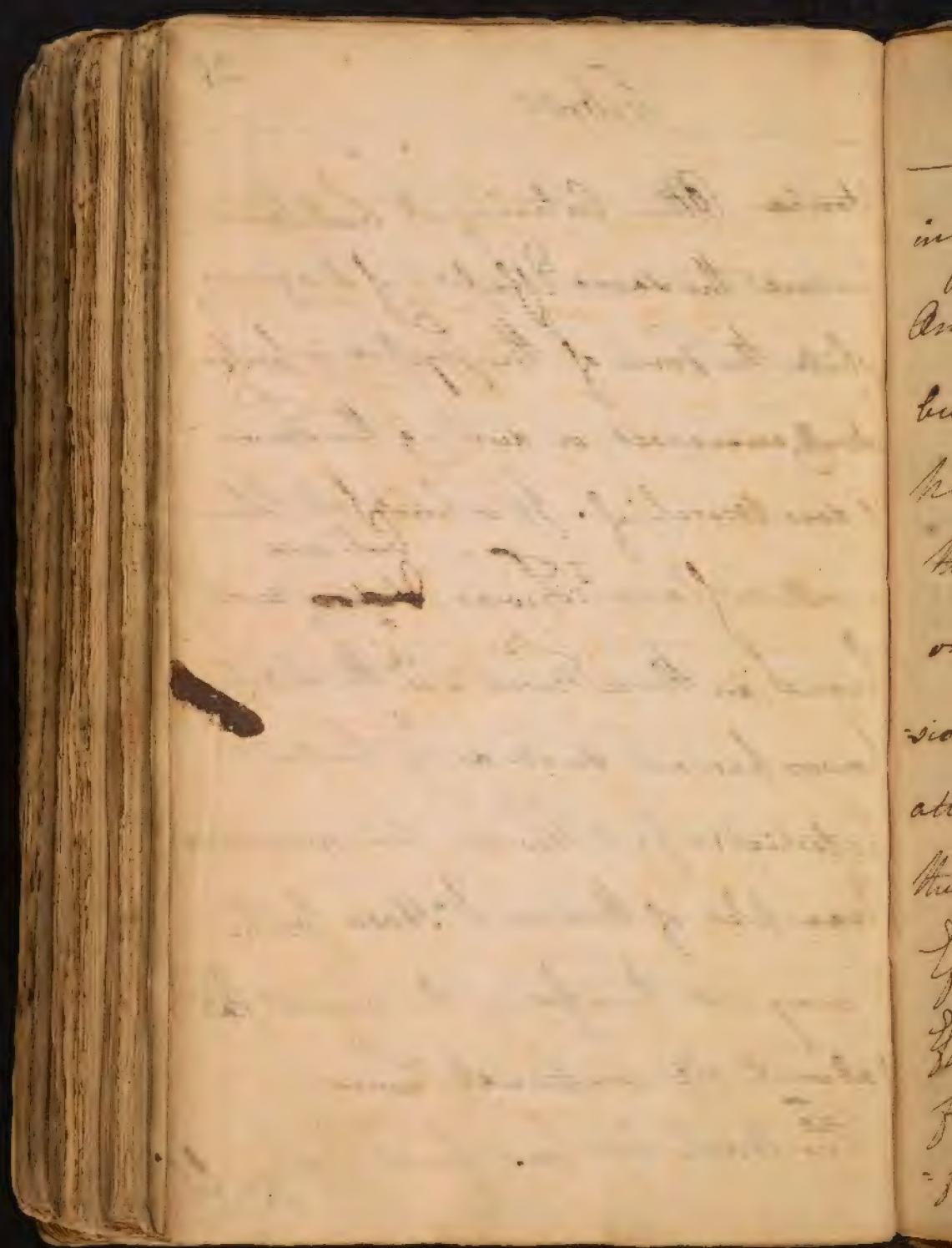
chiefly useful in the Pothelial Fever.

we come now to speak of $\frac{1}{2}$ tonic Medicines. These are very numerous such as Astringents, fossil substances vegetable matters more especially the Peruvian Bark. I shall confine myself only to the Bark which is $\frac{1}{2}$ most efficacious of any vegetable or fossil astringent we are acquainted with. Some suppose that it operates specifically, but I shall endeavour to explain its operation in another way. Ever we know comes on the manifest signs of Debility & Atonia, now the Bark acts by obviating this



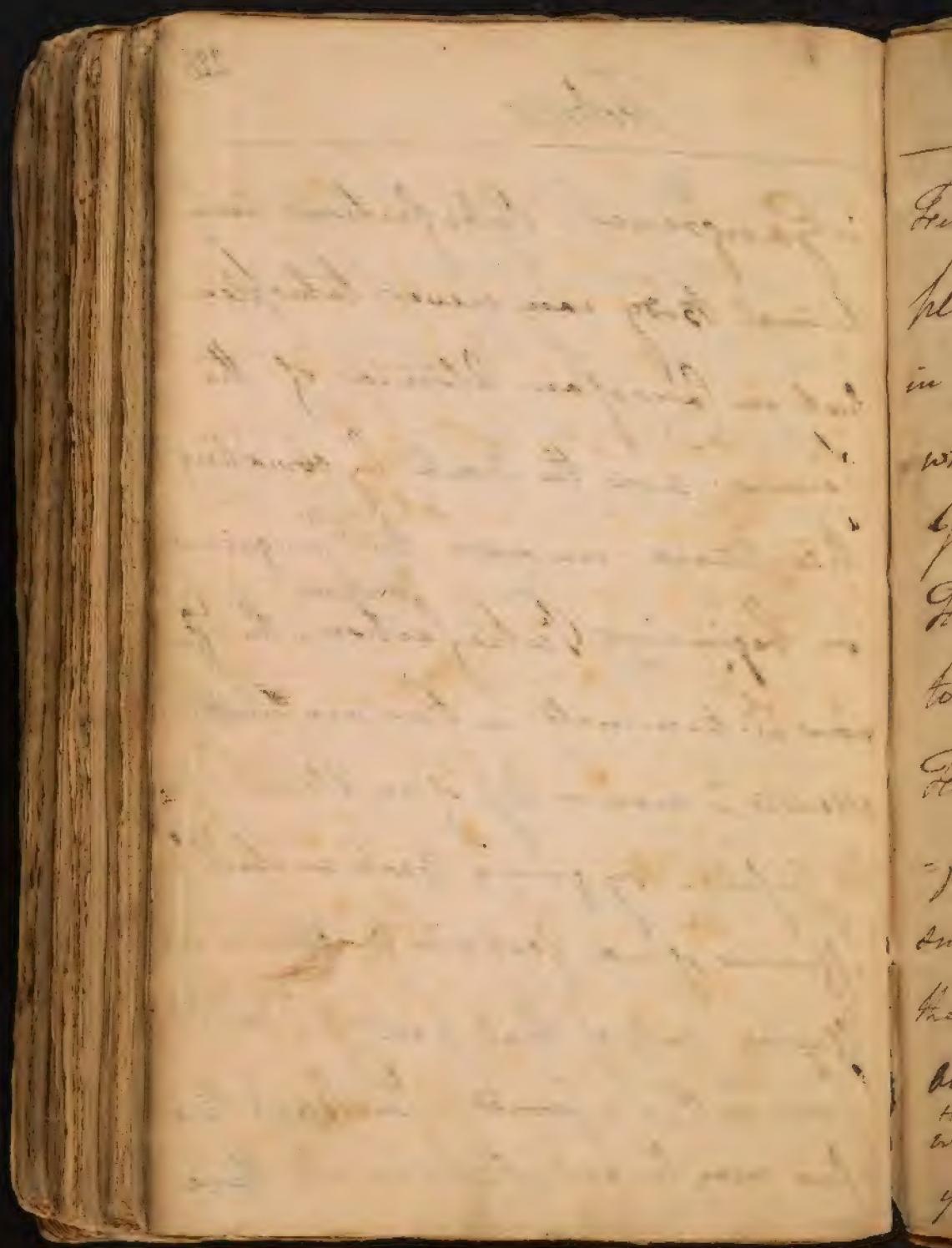
Atonia. Other costringent substances produce the same effects. if it is given while the force of the system is prostrately increased or during the fever it does mischief. It is hurtful likewise in all Inflamm: Fevers, ^{but does} ~~does~~ most prove in those Fevers where the sedative powers prevail such as y^e putrid petechial & jail Fevers. See numerous Examples of this in Dr. Haen works. It may used therefore in the advanced state of almost all continual Fevers.

The bark has been found highly useful

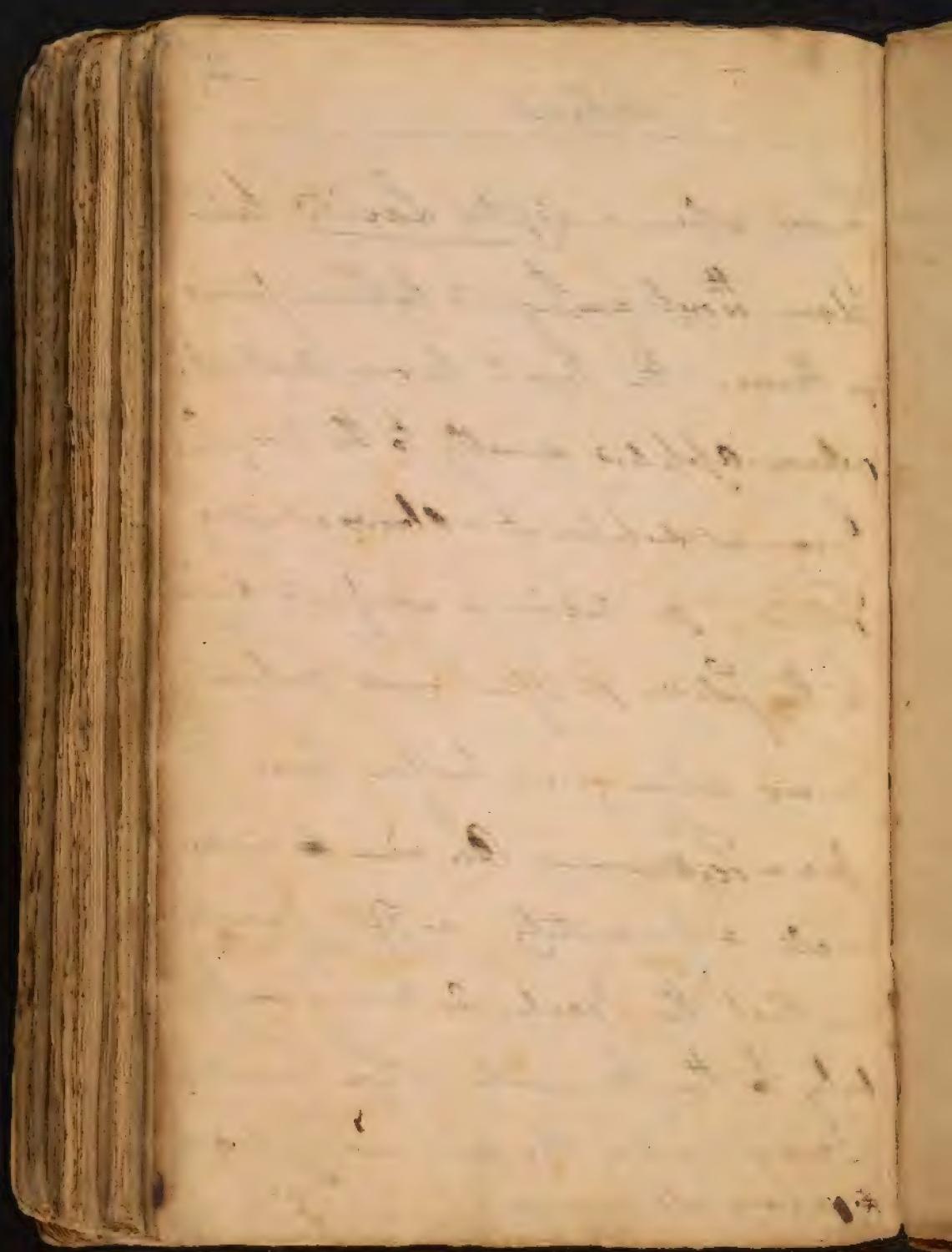


Febræ

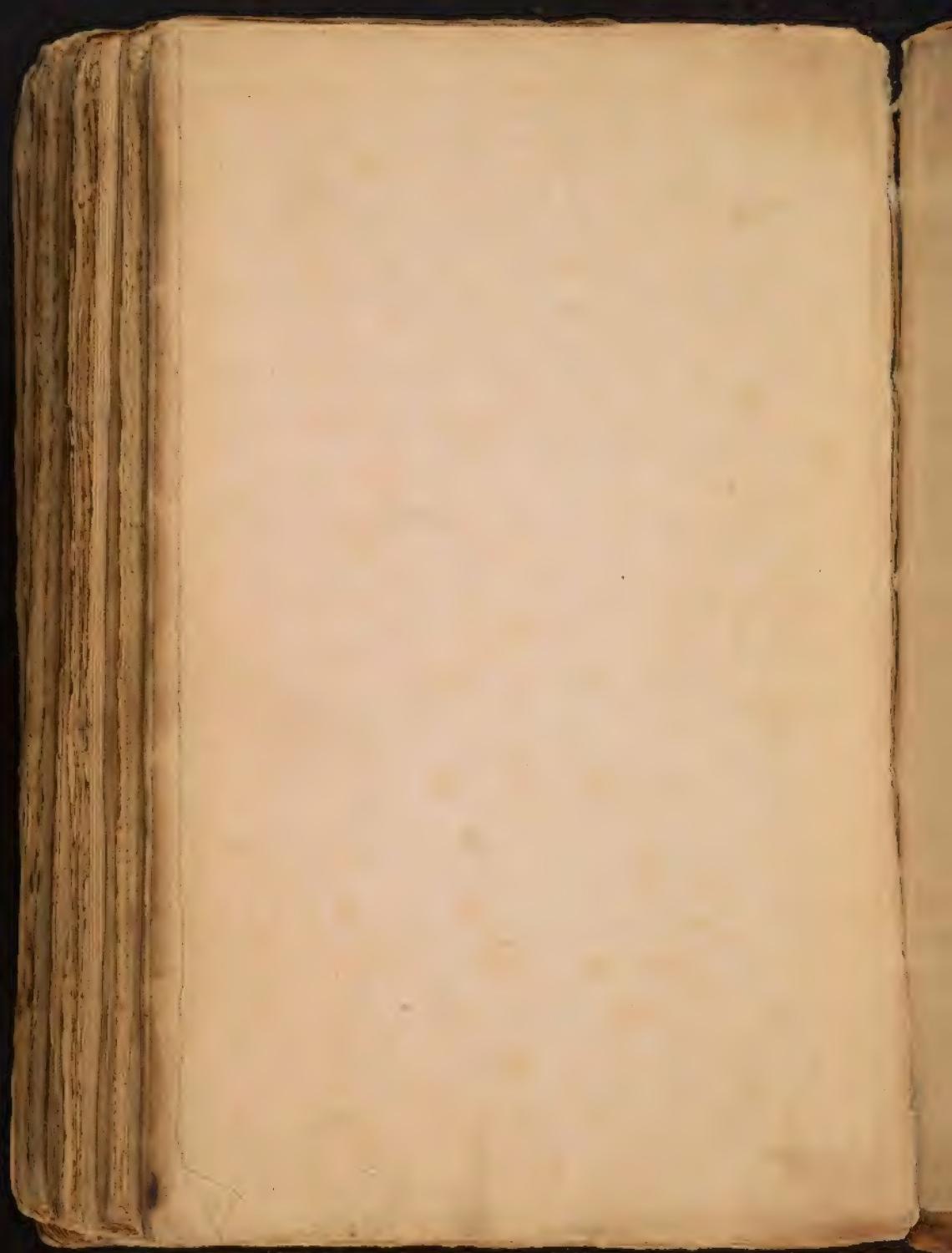
in Gangrenes. Putrefactions in²
Animal Body can never take place
but in Cases of an Atonia of the
Nerves. now the Bark by obviating
this Atonia removes the Gangrene
or beginning Putrefaction. the Op-
erations w^{ch} terminate in Pus are always
attended th more or less of an Atonia of
the Nerves. By giving Bark we check y^e
Diffusions of red Globules & obtain an
Diffusion only of that part of y^e blood
from w^{ch} Pus is formed. The Bark there-
fore may be exhibited in all those

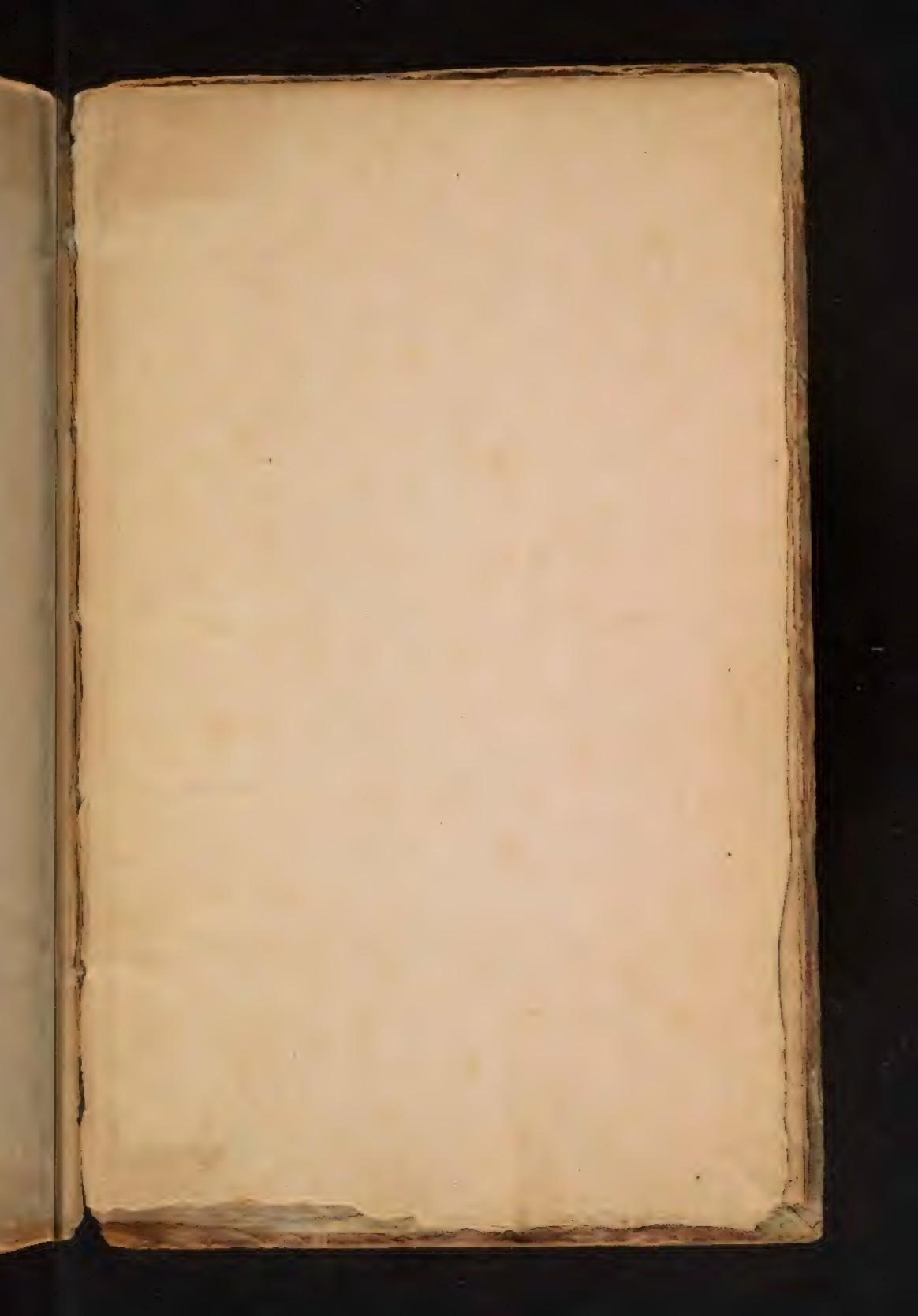


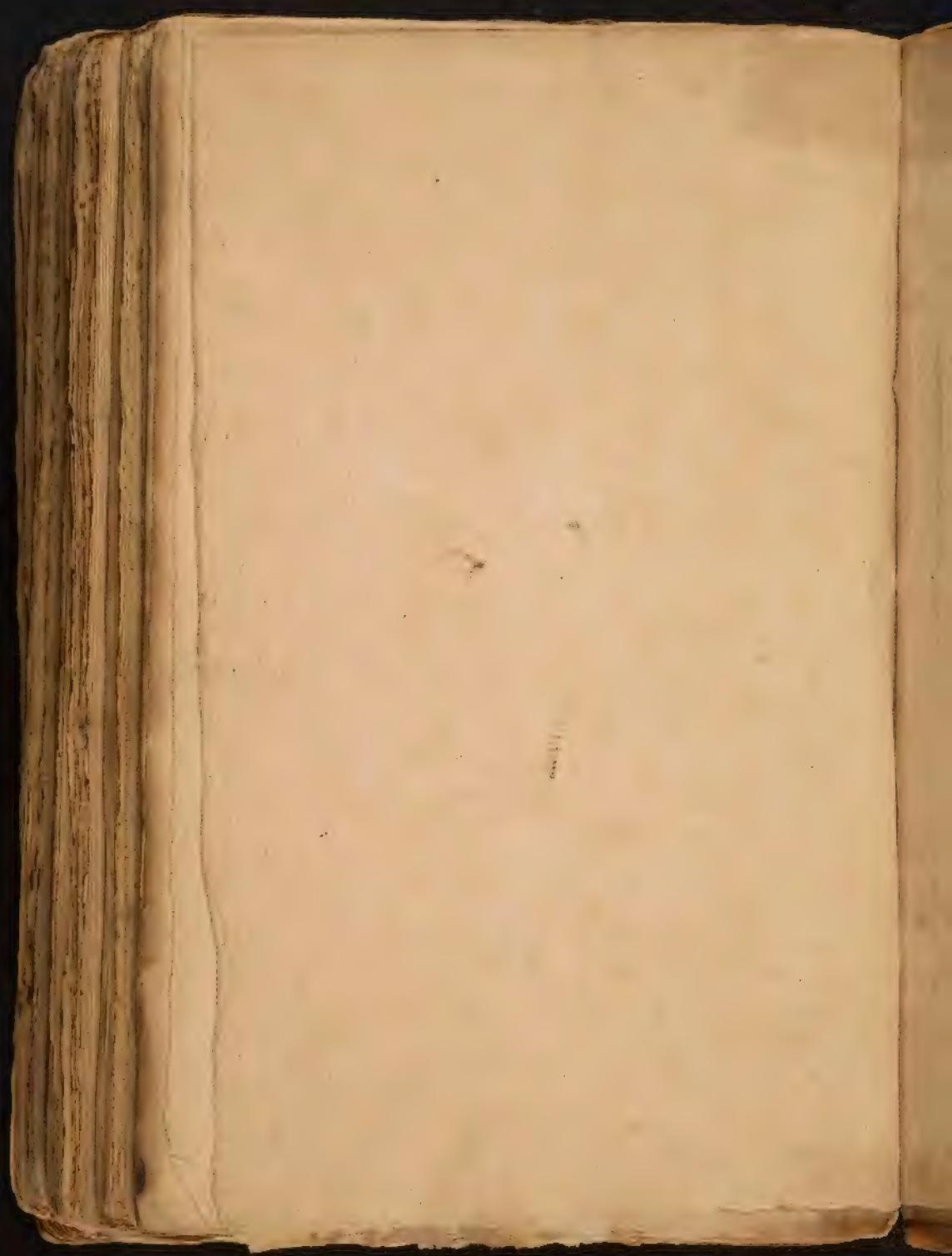
Fever when a Septic Laxity takes place w/out any regard to Remissions in them. The Bark proves Antiseptic when applied directly to the Body, but I can not suppose it is absorbed into the Fluid. Its action is confined only to the solids. It often cures Intermittent fevers when given half an hour before a fit comes On even to in so small a quantity as 3fz. I conclude then that the Bark's Action is confined only to the stomach whose connection w: every part of the nervous system you are all acquainted with.

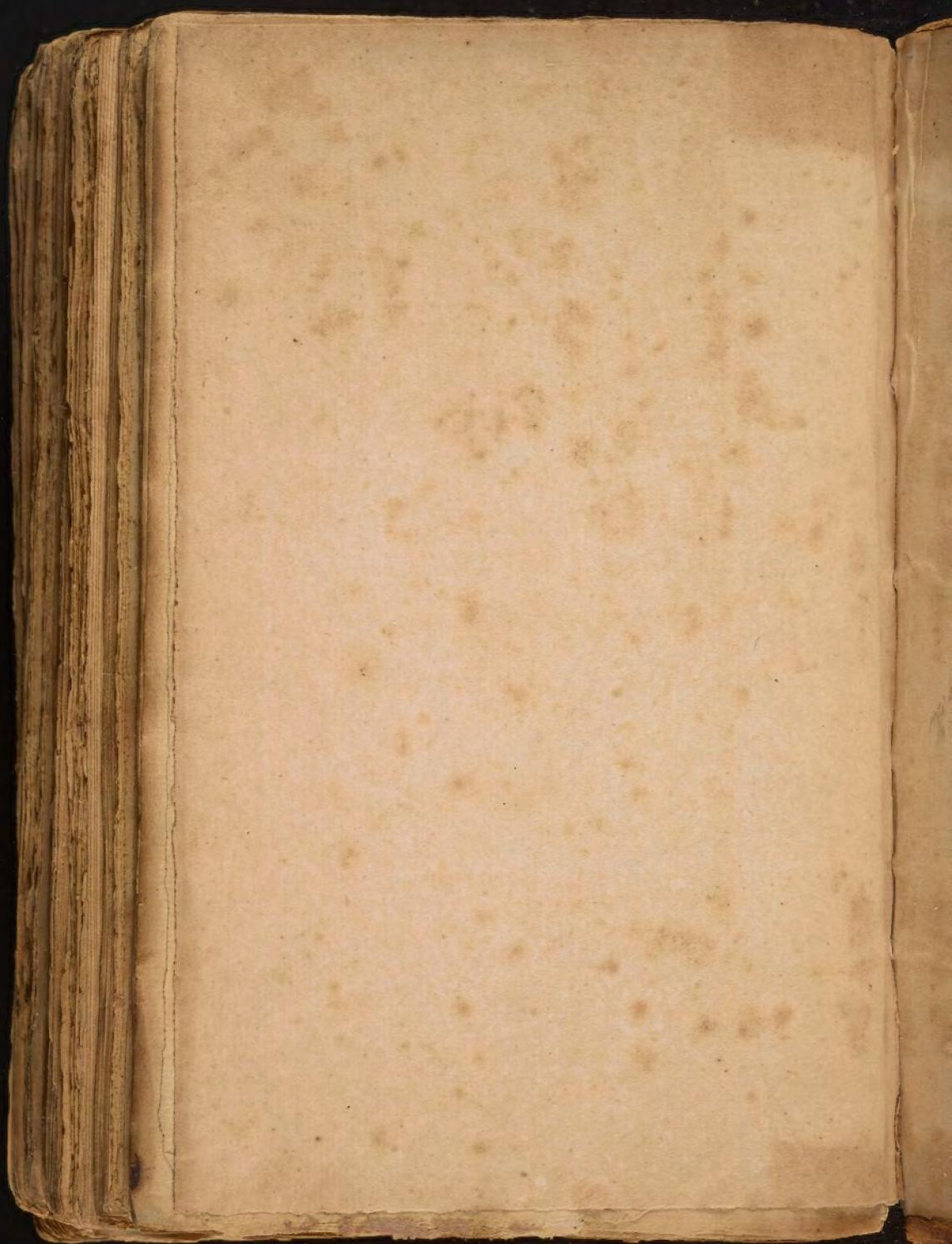












LIBRARY COMPANY

OF

PHILADELPHIA.

RIDGWAY BRANCH.

PRESERVED BY

COMMUNITER BONA PROFUNDERE DEORUM EST.



C. E.
PRACTICE
VOL. I.

Gullen
practice
Vol. I.